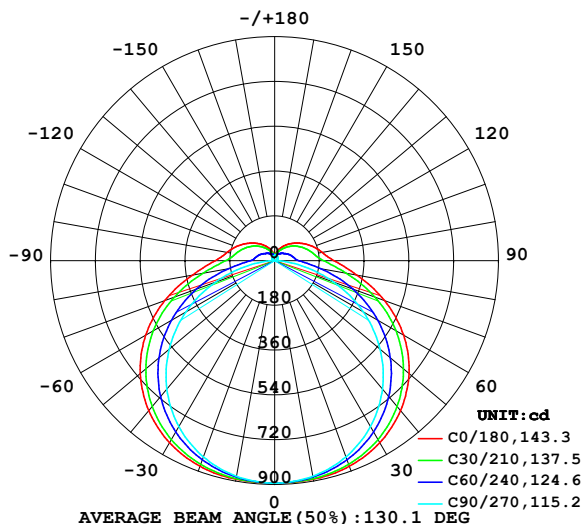


LUMINAIRE PHOTOMETRIC TEST REPORT

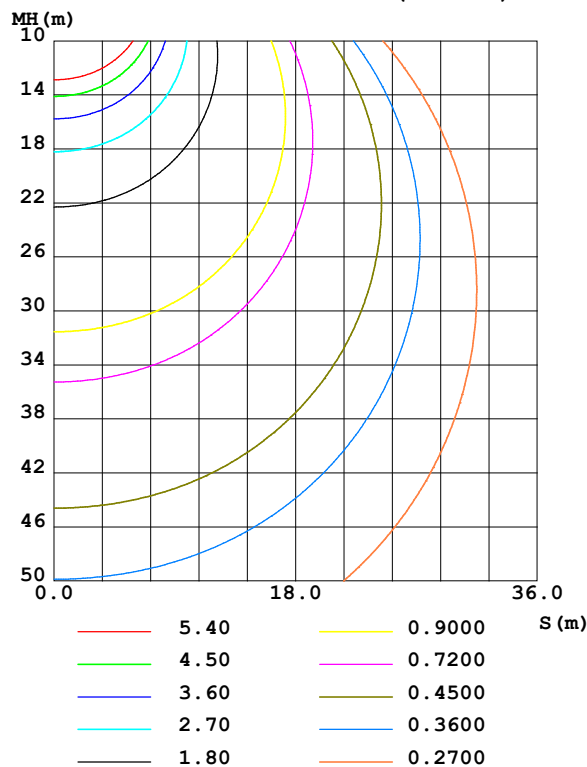
Test:U:230.35V I:0.1233A P:26.643W PF:0.9382 Freq:49.99Hz		
UTHDi:0.21% ITHDi:9.92% KDisp:0.9439 Lamp Flux:3721.96x1 lm		
NAME: NU28-LC-28W-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 139.70 lm/W			
MODEL	NU28	I <sub>max</sub> (cd)	893.9	S/MH(C0/180)	1.41
NOMINAL POWER(W)	28	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3722.0	□ UP,DN(C0-180)	6.8,43.2
NOMINAL FLUX(lm)	3721.96	CIE CLASS	SEMI-D.	□ UP,DN(C180-360)	6.8,43.2
LAMPS INSIDE	1	□ up (%)	13.6	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	□ down (%)	86.4	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:QC  
Test Date:2022-06-21

□ Range: 0 - 180DEG  
□ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.458  
Humidity:65.0%  
Test Distance:10.640m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	892.4	886.6	880.1	886.6	892.4	886.6	880.1	886.6	0- 10	84.98	84.98	2.28,2.28
20	879.4	861.9	839.1	861.9	879.4	861.9	839.1	861.9	10- 20	247.7	332.7	8.94,8.94
30	845.2	814.2	769.9	814.2	845.2	814.2	769.9	814.2	20- 30	387.1	719.8	19.3,19.3
40	787.3	741.5	674.1	741.5	787.3	741.5	674.1	741.5	30- 40	486.5	1206	32.4,32.4
50	705.0	644.2	553.4	644.2	705.0	644.2	553.4	644.2	40- 50	532.5	1739	46.7,46.7
60	598.4	524.0	410.9	524.0	598.4	524.0	410.9	524.0	50- 60	517.9	2257	60.6,60.6
70	469.8	385.4	253.0	385.4	469.8	385.4	253.0	385.4	60- 70	442.6	2699	72.5,72.5
80	335.5	244.1	96.02	244.1	335.5	244.1	96.02	244.1	70- 80	319.8	3019	81.1,81.1
90	238.9	151.2	5.384	151.2	238.9	151.2	5.384	151.2	80- 90	195.1	3214	86.4,86.4
100	194.5	123.2	7.047	123.2	194.5	123.2	7.047	123.2	90-100	135.5	3350	90,90
110	165.4	105.4	9.303	105.4	165.4	105.4	9.303	105.4	100-110	111.7	3461	93,93
120	137.1	88.01	11.26	88.01	137.1	88.01	11.26	88.01	110-120	89.14	3550	95.4,95.4
130	110.8	68.92	13.45	68.92	110.8	68.92	13.45	68.92	120-130	66.72	3617	97.2,97.2
140	87.30	54.23	15.58	54.23	87.30	54.23	15.58	54.23	130-140	46.72	3664	98.4,98.4
150	66.05	42.50	17.74	42.50	66.05	42.50	17.74	42.50	140-150	30.21	3694	99.3,99.3
160	46.95	32.77	19.43	32.77	46.95	32.77	19.43	32.77	150-160	17.43	3712	99.7,99.7
170	29.90	25.37	20.62	25.37	29.90	25.37	20.62	25.37	160-170	8.203	3720	99.9,99.9
180	21.28	21.00	21.19	21.00	21.28	21.00	21.19	21.00	170-180	2.208	3722	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1470.5 lm

%lum = 39.5%

%lamp = 39.5%

Conical surface Flux(130deg): 2490.9 lm

%lum = 66.9%

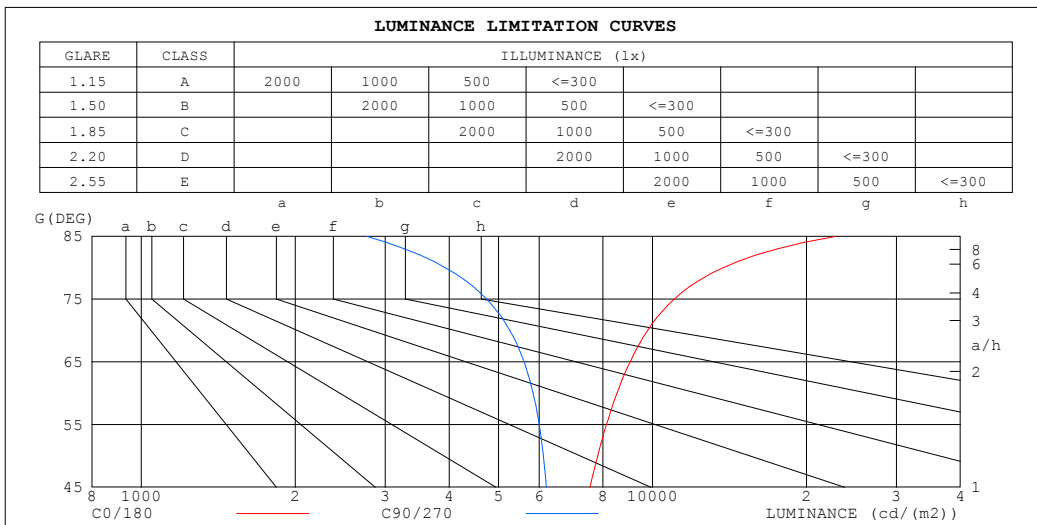
%lamp = 66.9%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:QC  
Test Date:2022-06-21

□ Range: 0 - 180DEG  
□ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.458  
Humidity:65.0%  
Test Distance:10.640m [K=1.0000]  
Remarks:

### LUMINANCE LIMITATION CURVES

Test:U:230.35V I:0.1233A P:26.643W PF:0.9382 Freq:49.99Hz		
UTHDi:0.21% ITHDi:9.92% KDisp:0.9439 Lamp Flux:3721.96x1 lm		
NAME: NU28-LC-28W-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	22883	2760
80	13757	3929
75	11035	4734
70	9781	5256
65	9040	5605
60	8522	5838
55	8129	6002
50	7810	6116
45	7544	6197

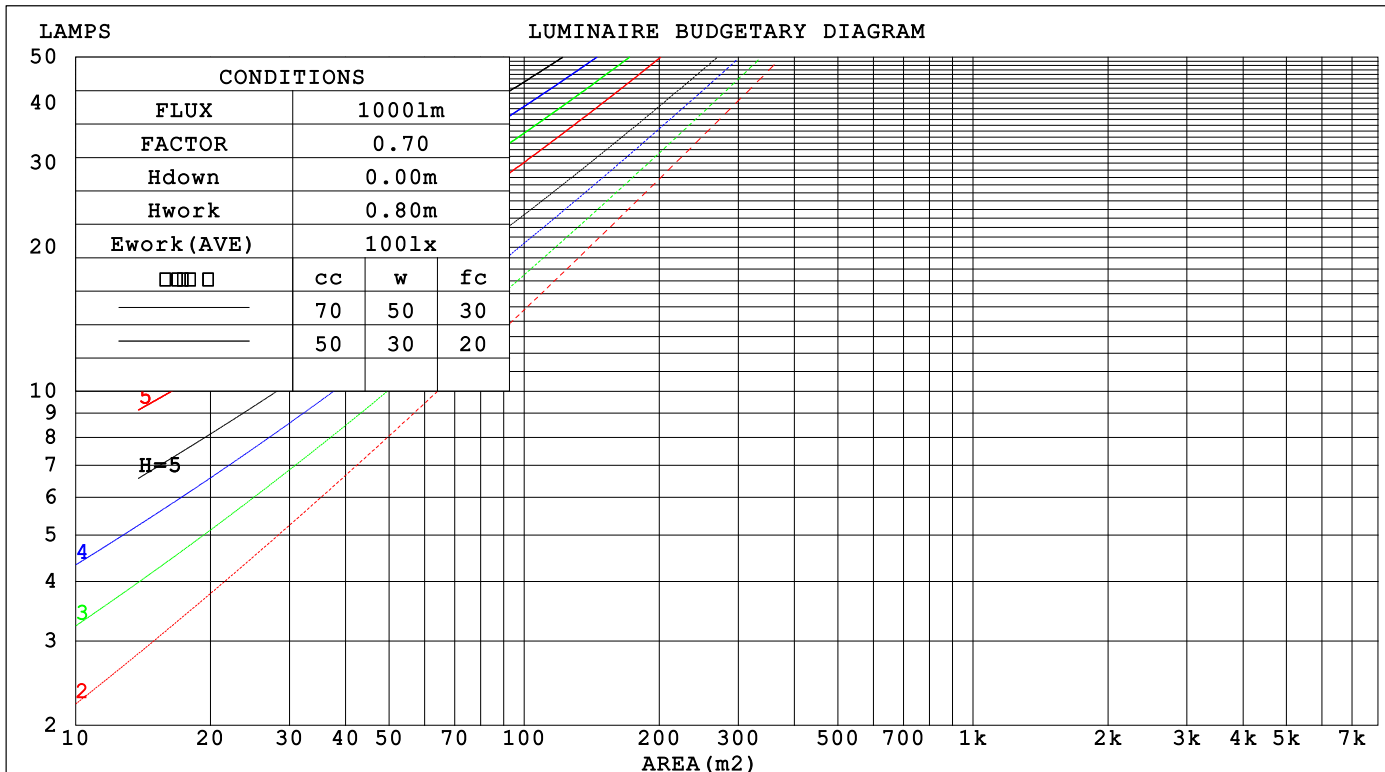
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:QC  
Test Date:2022-06-21

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.458  
Humidity:65.0%  
Test Distance:10.640m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.35V I:0.1233A P:26.643W PF:0.9382 Freq:49.99Hz		
UTHDi:0.21% ITHDi:9.92% KDisp:0.9439 Lamp Flux:3721.96x1 lm		
NAME: NU28-LC-28W-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

□cc	80%			70%			50%			30%			10%			0														
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
□fc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.16	1.16	1.16	1.12	1.12	1.12	1.04	1.04	1.04	.96	.96	.96	.90	.90	.90	.86														
1.0	.98	.93	.89	.94	.90	.86	.88	.84	.81	.81	.78	.76	.76	.73	.71	.68														
2.0	.84	.77	.70	.81	.74	.69	.75	.70	.65	.70	.65	.61	.65	.61	.58	.55														
3.0	.73	.65	.58	.71	.63	.56	.66	.59	.53	.61	.55	.51	.57	.52	.48	.45														
4.0	.64	.55	.48	.62	.54	.47	.58	.51	.45	.54	.48	.43	.50	.45	.41	.38														
5.0	.57	.48	.41	.55	.47	.40	.52	.44	.38	.48	.42	.37	.45	.39	.35	.32														
6.0	.51	.42	.35	.50	.41	.35	.46	.39	.33	.43	.37	.32	.41	.35	.31	.28														
7.0	.46	.37	.31	.45	.36	.30	.42	.35	.29	.39	.33	.28	.37	.31	.27	.25														
8.0	.42	.33	.27	.41	.33	.27	.38	.31	.26	.36	.30	.25	.34	.28	.24	.22														
9.0	.38	.30	.24	.37	.29	.24	.35	.28	.23	.33	.27	.22	.31	.26	.21	.19														
10.0	.35	.27	.22	.34	.27	.22	.32	.26	.21	.31	.24	.20	.29	.23	.19	.18														



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:QC  
Test Date:2022-06-21

□ Range: 0 - 180DEG  
□ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.458  
Humidity:65.0%  
Test Distance:10.640m [K=1.0000]  
Remarks:

### WEC AND CCEC

Test:U:230.35V I:0.1233A P:26.643W PF:0.9382 Freq:49.99Hz		
UTHDi:0.21% ITHDi:9.92% KDisp:0.9439 Lamp Flux:3721.96x1 lm		
NAME: NU28-LC-28W-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio					Wall Exitance Coefficients(WEC)
0.0						
1.0	.358 .204 .064	.347 .198 .063	.325 .187 .060	.306 .176 .057	.288 .167 .054	
2.0	.319 .175 .054	.309 .170 .052	.290 .161 .050	.272 .153 .048	.256 .145 .046	
3.0	.288 .153 .046	.279 .149 .045	.261 .142 .043	.245 .134 .041	.231 .128 .039	
4.0	.261 .136 .040	.253 .132 .039	.237 .126 .038	.223 .120 .036	.209 .114 .035	
5.0	.239 .122 .035	.231 .119 .035	.217 .113 .033	.204 .108 .032	.192 .103 .031	
6.0	.220 .110 .032	.213 .108 .031	.200 .103 .030	.188 .098 .029	.177 .093 .028	
7.0	.203 .100 .028	.197 .098 .028	.185 .094 .027	.174 .089 .026	.164 .085 .025	
8.0	.189 .092 .026	.183 .090 .026	.173 .086 .025	.163 .082 .024	.153 .079 .023	
9.0	.176 .085 .024	.171 .083 .023	.161 .080 .023	.152 .076 .022	.143 .073 .021	
10.0	.165 .079 .022	.161 .078 .022	.151 .074 .021	.143 .071 .020	.135 .068 .019	

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio					Ceiling Cavity Exitance Coefficients(CCEC)
0.0	.294 .294 .294	.252 .252 .252	.172 .172 .172	.099 .099 .099	.032 .032 .032	
1.0	.288 .261 .235	.247 .224 .203	.169 .154 .140	.097 .089 .081	.031 .029 .026	
2.0	.281 .237 .200	.241 .204 .173	.165 .141 .121	.095 .082 .071	.031 .027 .023	
3.0	.274 .220 .178	.235 .190 .154	.161 .132 .108	.093 .077 .064	.030 .025 .021	
4.0	.266 .208 .163	.229 .180 .142	.157 .125 .100	.091 .073 .059	.029 .024 .019	
5.0	.259 .198 .153	.222 .171 .133	.153 .120 .094	.089 .070 .056	.029 .023 .018	
6.0	.252 .190 .145	.216 .164 .127	.149 .115 .090	.087 .068 .053	.028 .022 .018	
7.0	.245 .183 .140	.210 .159 .122	.145 .111 .087	.084 .066 .051	.027 .021 .017	
8.0	.238 .178 .136	.205 .154 .119	.142 .108 .084	.082 .064 .050	.027 .021 .017	
9.0	.232 .173 .133	.200 .150 .116	.138 .105 .082	.081 .062 .049	.026 .020 .016	
10.0	.226 .169 .130	.195 .146 .114	.135 .103 .081	.079 .061 .048	.026 .020 .016	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:QC  
Test Date:2022-06-21

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.458  
Humidity:65.0%  
Test Distance:10.640m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

Test:U:230.35V I:0.1233A P:26.643W PF:0.9382 Freq:49.99Hz UTHDi:0.21% ITHDi:9.92% KDisp:0.9439Lamp Flux:3721.96x1 lm											
NAME: NU28-LC-28W-1200K-40H					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.: Ervan					SUR.:			Shielding Angle:			
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		Viewed crosswise					Viewed endwise				
x = 2H y = 2H		15.2	16.6	15.6	17.0	17.5	13.6	15.0	14.1	15.5	15.9
3H		17.4	18.7	17.9	19.2	19.7	15.1	16.4	15.6	16.9	17.4
4H		18.6	19.8	19.1	20.3	20.8	15.7	16.9	16.2	17.4	17.9
6H		19.8	20.9	20.3	21.4	22.0	16.0	17.2	16.5	17.7	18.2
8H		20.4	21.5	21.0	22.1	22.6	16.1	17.2	16.6	17.7	18.3
12H		21.2	22.2	21.7	22.8	23.4	16.1	17.2	16.7	17.7	18.3
4H 2H		15.7	16.9	16.2	17.4	18.0	14.6	15.8	15.1	16.3	16.8
3H		18.2	19.3	18.7	19.8	20.4	16.3	17.4	16.8	17.9	18.5
4H		19.5	20.5	20.1	21.1	21.7	17.0	18.0	17.6	18.5	19.1
6H		20.9	21.8	21.5	22.4	23.0	17.5	18.4	18.1	18.9	19.6
8H		21.7	22.5	22.3	23.1	23.8	17.6	18.5	18.2	19.1	19.7
12H		22.6	23.3	23.2	23.9	24.6	17.7	18.5	18.3	19.1	19.8
8H 4H		19.8	20.6	20.4	21.2	21.9	17.7	18.5	18.3	19.1	19.8
6H		21.5	22.2	22.1	22.8	23.5	18.5	19.2	19.1	19.8	20.5
8H		22.4	23.0	23.1	23.7	24.4	18.8	19.4	19.4	20.0	20.8
12H		23.5	24.1	24.2	24.7	25.5	19.0	19.5	19.6	20.2	20.9
12H 4H		19.8	20.6	20.4	21.2	21.9	17.9	18.6	18.5	19.2	19.9
6H		21.5	22.2	22.2	22.8	23.5	18.8	19.4	19.5	20.1	20.8
8H		22.6	23.1	23.3	23.8	24.6	19.2	19.8	19.9	20.4	21.2
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.1 / - 0.1					+ 0.1 / - 0.2				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.2 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 3722 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.6)  
Area: 0.1407 m2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:QC  
Test Date:2022-06-21

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.458  
Humidity:65.0%  
Test Distance:10.640m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:230.35V I:0.1233A P:26.643W PF:0.9382 Freq:49.99Hz		
UTHDi:0.21% ITHDi:9.92% KDisp:0.9439 Lamp Flux:3721.96x1 lm		
NAME: NU28-LC-28W-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

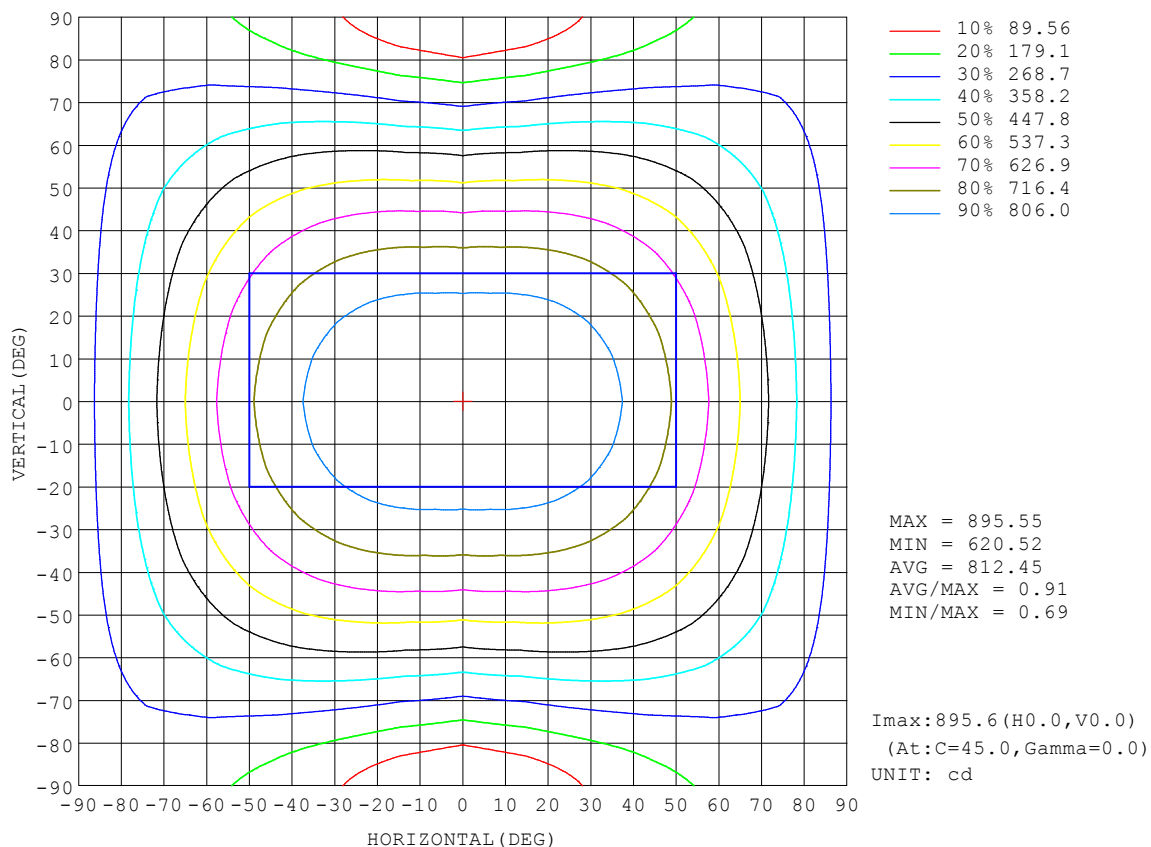
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	50	38	31	49	37	30	47	37	30	23
0.80	60	47	39	58	46	39	55	45	38	30
1.00	68	55	47	66	54	47	62	55	45	37
1.25	75	63	54	72	61	54	69	59	52	43
1.50	80	68	60	77	67	59	73	64	57	48
2.00	87	77	69	84	75	68	79	71	65	54
2.50	91	82	75	88	80	73	83	76	70	58
3.00	95	87	80	92	84	78	86	79	74	62
4.00	100	92	86	96	90	84	90	84	80	67
5.00	102	96	91	99	93	88	92	87	84	70
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:QC  
Test Date:2022-06-21

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.458  
Humidity:65.0%  
Test Distance:10.640m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

Test:U:230.35V I:0.1233A P:26.643W PF:0.9382 Freq:49.99Hz		
UTHDi:0.21% ITHDi:9.92% KDisp:0.9439 Lamp Flux:3721.96x1 lm		
NAME: NU28-LC-28W-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:



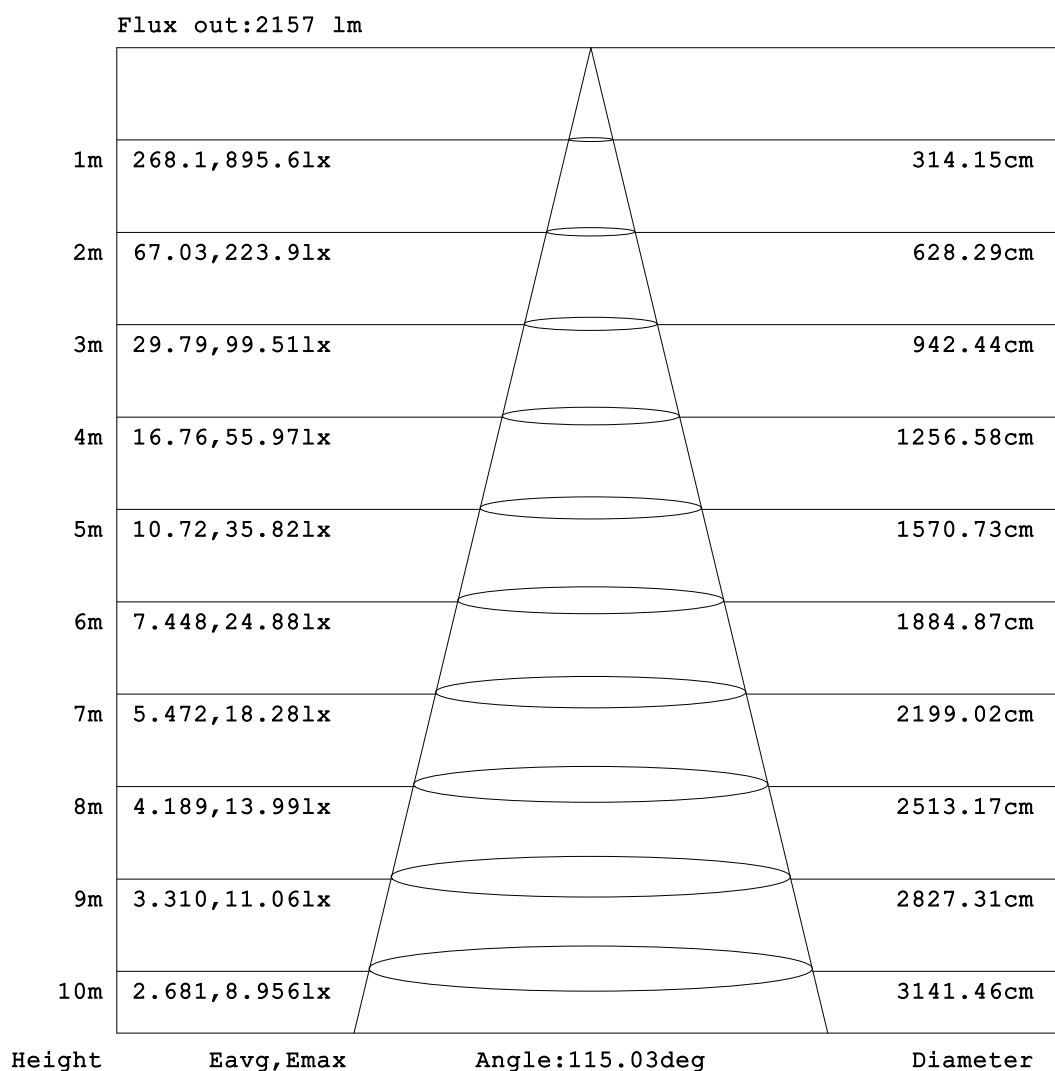
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:QC  
Test Date:2022-06-21

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.458  
Humidity:65.0%  
Test Distance:10.640m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:230.35V I:0.1233A P:26.643W PF:0.9382 Freq:49.99Hz		
UTHDi:0.21% ITHDi:9.92% KDisp:0.9439 Lamp Flux:3721.96x1 lm		
NAME: NU28-LC-28W-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:



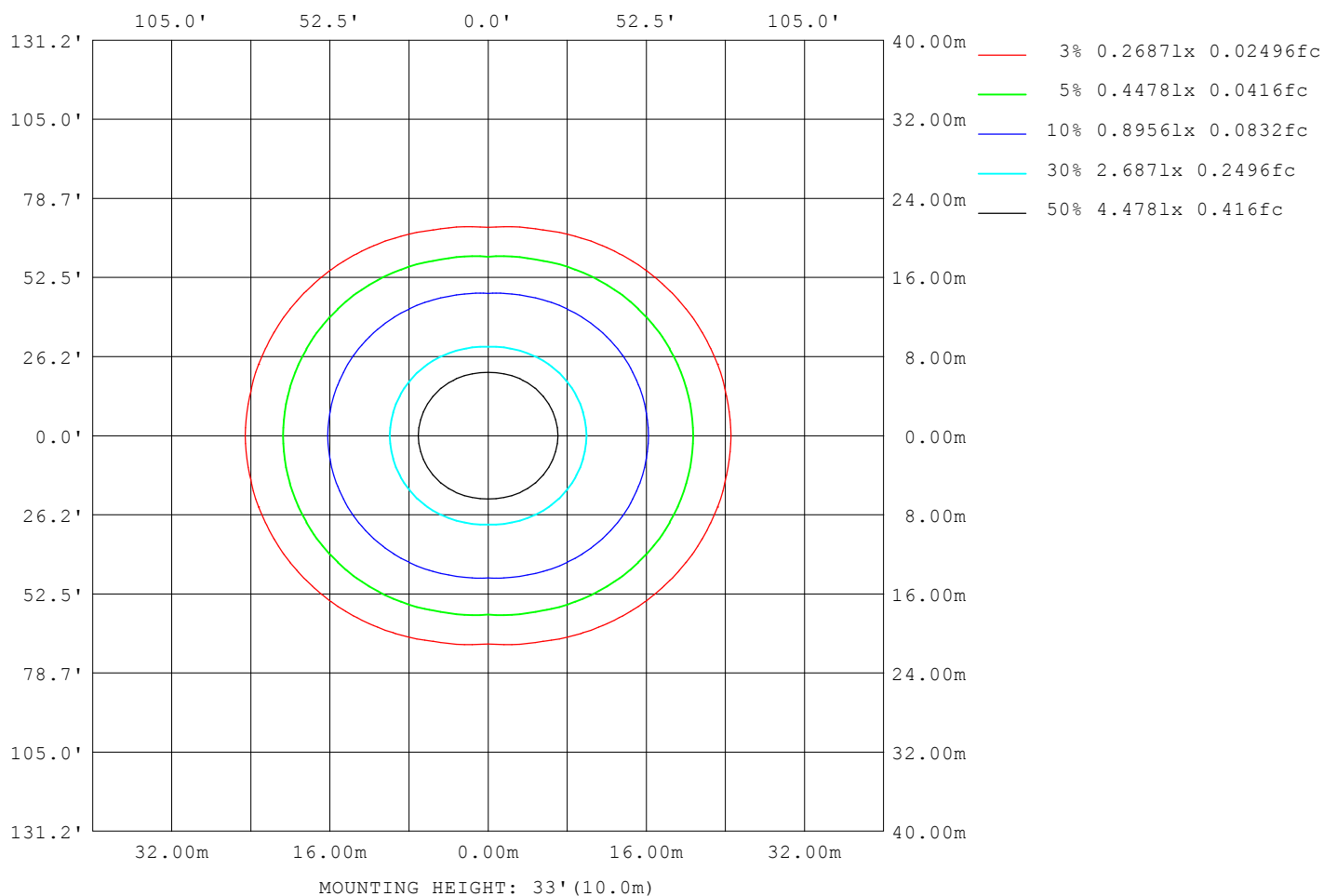
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:QC  
Test Date:2022-06-21

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.458  
Humidity:65.0%  
Test Distance:10.640m [K=1.0000]  
Remarks:

# ISOLUX DIAGRAM

Test:U:230.35V I:0.1233A P:26.643W PF:0.9382 Freq:49.99Hz		
UTHDi:0.21% ITHDi:9.92% KDisp:0.9439 Lamp Flux:3721.96x1 lm		
NAME: NU28-LC-28W-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:QC  
Test Date:2022-06-21

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.458  
Humidity:65.0%  
Test Distance:10.640m [K=1.0000]  
Remarks:

### LED Avg.L Report

Test:U:230.35V I:0.1233A P:26.643W PF:0.9382 Freq:49.99Hz UTHDi:0.21% ITHDi:9.92% KDisp:0.9439 Lamp Flux:3721.96x1 lm		
NAME: NU28-LC-28W-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

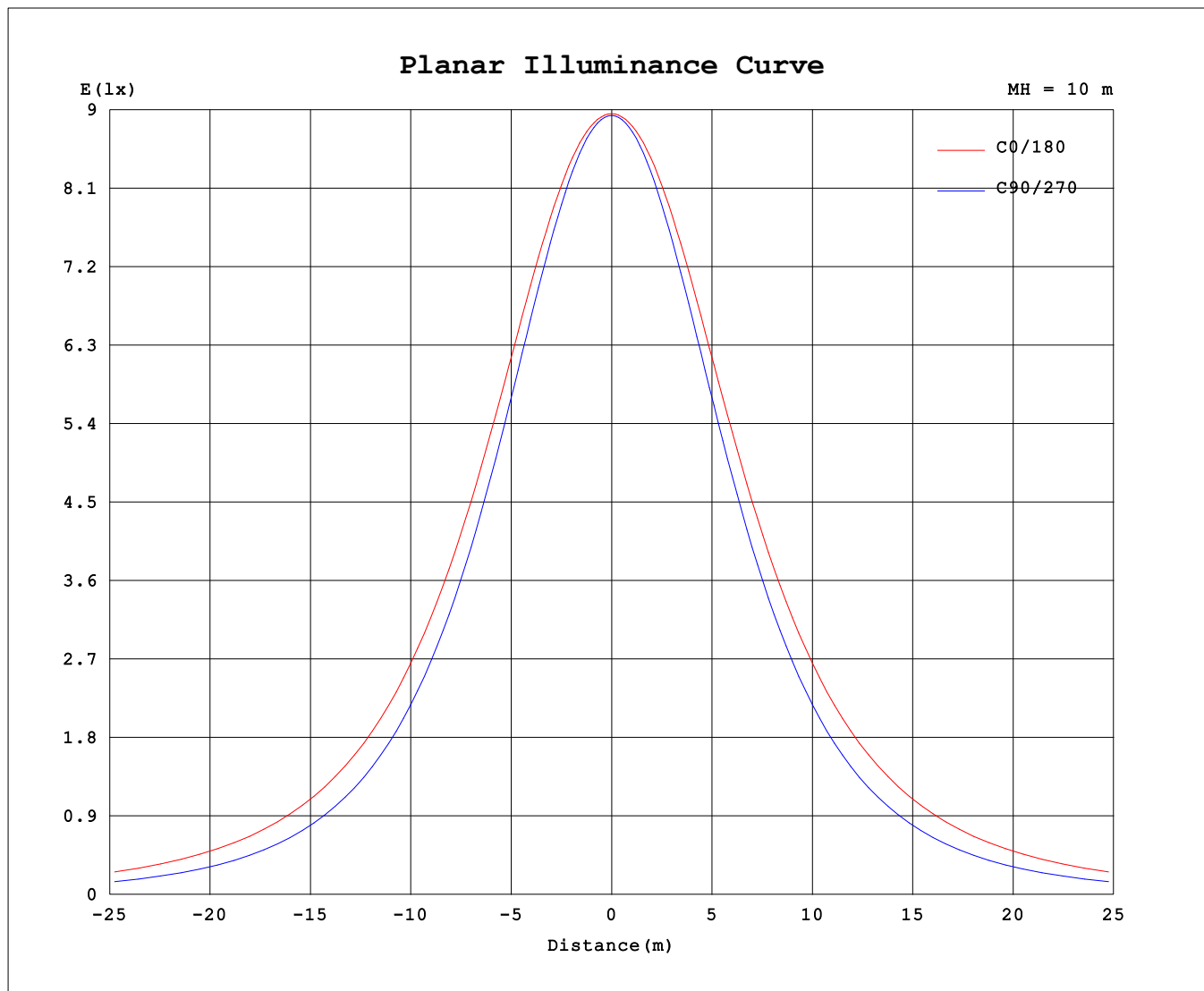
AvgL	cd/m2
L_0~180 (65) av	9023
L_0~180 (75) av	11014
L_0~180 (85) av	22840
L_90~270 (65) av	5607
L_90~270 (75) av	4736
L_90~270 (85) av	2761
L_45 (65) av	7678
L_45 (75) av	8597
L_45 (85) av	15289

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:QC  
Test Date:2022-06-21

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.458  
Humidity:65.0%  
Test Distance:10.640m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators: QC  
Test Date: 2022-06-21

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.458  
Humidity: 65.0%  
Test Distance: 10.640m [K=1.0000]  
Remarks:

### LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.35V I:0.1233A P:26.643W PF:0.9382 Freq:49.99Hz		
UTHDi:0.21% ITHDi:9.92% KDisp:0.9439 Lamp Flux:3721.96x1 lm		
NAME: NU28-LC-28W-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	894	894	894	894	894	894	894	894	894	894	894	894	894	894	894	894	894	894	894
5	894	893	893	892	891	891	890	891	891	892	893	893	894	893	893	892	891	891	890
10	892	892	890	887	883	881	880	881	883	887	890	892	892	892	890	887	883	881	880
15	888	887	883	877	870	865	863	865	870	877	883	887	888	887	883	877	870	865	863
20	879	877	871	862	851	843	839	843	851	862	871	877	879	877	871	862	851	843	839
25	865	862	854	841	827	813	808	813	827	841	854	862	865	862	854	841	827	813	808
30	845	841	831	814	795	778	770	778	795	814	831	841	845	841	831	814	795	778	770
35	819	814	801	781	757	736	725	736	757	781	801	814	819	814	801	781	757	736	725
40	787	781	765	742	713	687	674	687	713	742	765	781	787	781	765	742	713	687	674
45	749	742	724	696	663	632	617	632	663	696	724	742	749	742	724	696	663	632	617
50	705	697	676	644	607	572	553	572	607	644	676	697	705	697	676	644	607	572	553
55	655	646	622	587	546	506	485	506	546	587	622	646	655	646	622	587	546	506	485
60	598	589	563	524	479	435	411	435	479	524	563	589	598	589	563	524	479	435	411
65	537	526	498	457	408	360	333	360	408	457	498	526	537	526	498	457	408	360	333
70	470	459	429	385	334	283	253	283	334	385	429	459	470	459	429	385	334	283	253
75	401	390	359	313	260	205	172	205	260	313	359	390	401	390	359	313	260	205	172
80	335	324	292	244	189	132	96.0	132	189	244	292	324	335	324	292	244	189	132	96.0
85	280	269	236	187	130	71.7	33.9	71.7	130	187	236	269	280	269	236	187	130	71.7	33.9
90	239	228	197	151	96.9	40.7	5.38	40.7	96.9	151	197	228	239	228	197	151	96.9	40.7	5.38
95	212	202	174	133	84.6	35.0	5.98	35.0	84.6	133	174	202	212	202	174	133	84.6	35.0	5.98
100	195	186	161	123	78.3	32.7	7.05	32.7	78.3	123	161	186	195	186	161	123	78.3	32.7	7.05
105	180	172	149	114	72.7	31.2	8.17	31.2	72.7	114	149	172	180	172	149	114	72.7	31.2	8.17
110	165	158	137	105	67.5	29.9	9.30	29.9	67.5	105	137	158	165	158	137	105	67.5	29.9	9.30
115	151	144	126	96.9	61.9	28.5	10.2	28.5	61.9	96.9	126	144	151	144	126	96.9	61.9	28.5	10.2
120	137	131	114	88.0	56.0	27.4	11.3	27.4	56.0	88.0	114	131	137	131	114	88.0	56.0	27.4	11.3
125	124	119	104	78.2	50.2	26.3	12.4	26.3	50.2	78.2	104	119	124	119	104	78.2	50.2	26.3	12.4
130	111	106	92.4	68.9	46.1	25.3	13.5	25.3	46.1	68.9	92.4	106	111	106	92.4	68.9	46.1	25.3	13.5
135	98.8	94.9	80.5	61.1	42.3	24.6	14.5	24.6	42.3	61.1	80.5	94.9	98.8	94.9	80.5	61.1	42.3	24.6	14.5
140	87.3	84.0	70.1	54.2	38.7	23.8	15.6	23.8	38.7	54.2	70.1	84.0	87.3	84.0	70.1	54.2	38.7	23.8	15.6
145	76.4	72.8	60.3	48.3	35.3	23.1	16.8	23.1	35.3	48.3	60.3	72.8	76.4	72.8	60.3	48.3	35.3	23.1	16.8
150	66.0	62.5	51.7	42.5	32.2	22.8	17.7	22.8	32.2	42.5	51.7	62.5	66.0	62.5	51.7	42.5	32.2	22.8	17.7
155	56.3	52.7	44.4	37.1	29.8	22.5	18.6	22.5	29.8	37.1	44.4	52.7	56.3	52.7	44.4	37.1	29.8	22.5	18.6
160	47.0	42.3	37.5	32.8	27.6	22.2	19.4	22.2	27.6	32.8	37.5	42.3	47.0	42.3	37.5	32.8	27.6	22.2	19.4
165	37.8	34.0	31.4	28.9	25.4	21.7	20.1	21.7	25.4	28.9	31.4	34.0	37.8	34.0	31.4	28.9	25.4	21.7	20.1
170	29.9	27.6	26.6	25.4	23.4	21.4	20.6	21.4	23.4	25.4	26.6	27.6	29.9	27.6	26.6	25.4	23.4	21.4	20.6
175	24.1	22.7	22.7	22.3	21.7	21.3	21.0	21.3	21.7	22.3	22.7	22.7	24.1	22.7	22.7	22.3	21.7	21.3	21.0
180	21.3	20.6	20.9	21.0	21.1	21.2	21.2	21.2	21.1	21.0	20.9	20.6	21.3	20.6	20.9	21.0	21.1	21.2	21.2

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:QC  
Test Date:2022-06-21

□ Range: 0 - 180DEG  
□ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.458  
Humidity:65.0%  
Test Distance:10.640m [K=1.0000]  
Remarks:

### LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.35V I:0.1233A P:26.643W PF:0.9382 Freq:49.99Hz		
UTHDi:0.21% ITHDi:9.92% KDisp:0.9439 Lamp Flux:3721.96x1 lm		
NAME: NU28-LC-28W-1200K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) □ (DEG)	285	300	315	330	345													
0	894	894	894	894	894													
5	891	891	892	893	893													
10	881	883	887	890	892													
15	865	870	877	883	887													
20	843	851	862	871	877													
25	813	827	841	854	862													
30	778	795	814	831	841													
35	736	757	781	801	814													
40	687	713	742	765	781													
45	632	663	696	724	742													
50	572	607	644	676	697													
55	506	546	587	622	646													
60	435	479	524	563	589													
65	360	408	457	498	526													
70	283	334	385	429	459													
75	205	260	313	359	390													
80	132	189	244	292	324													
85	71.7	130	187	236	269													
90	40.7	96.9	151	197	228													
95	35.0	84.6	133	174	202													
100	32.7	78.3	123	161	186													
105	31.2	72.7	114	149	172													
110	29.9	67.5	105	137	158													
115	28.5	61.9	96.9	126	144													
120	27.4	56.0	88.0	114	131													
125	26.3	50.2	78.2	104	119													
130	25.3	46.1	68.9	92.4	106													
135	24.6	42.3	61.1	80.5	94.9													
140	23.8	38.7	54.2	70.1	84.0													
145	23.1	35.3	48.3	60.3	72.8													
150	22.8	32.2	42.5	51.7	62.5													
155	22.5	29.8	37.1	44.4	52.7													
160	22.2	27.6	32.8	37.5	42.3													
165	21.7	25.4	28.9	31.4	34.0													
170	21.4	23.4	25.4	26.6	27.6													
175	21.3	21.7	22.3	22.7	22.7													
180	21.2	21.1	21.0	20.9	20.6													

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:QC  
Test Date:2022-06-21

☐ Range: 0 - 180DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.458  
Humidity:65.0%  
Test Distance:10.640m [K=1.0000]  
Remarks: