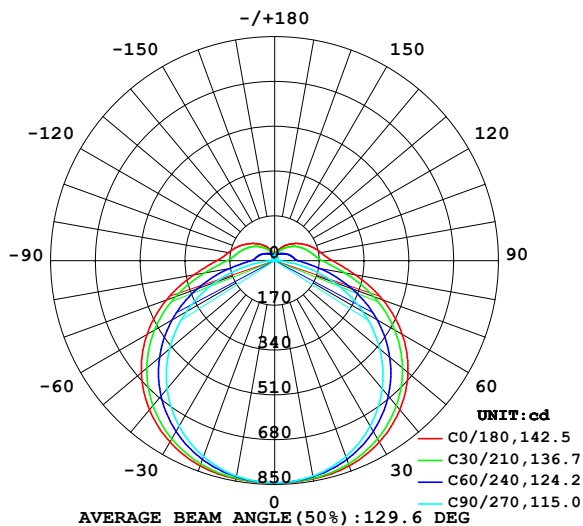


LUMINAIRE PHOTOMETRIC TEST REPORT

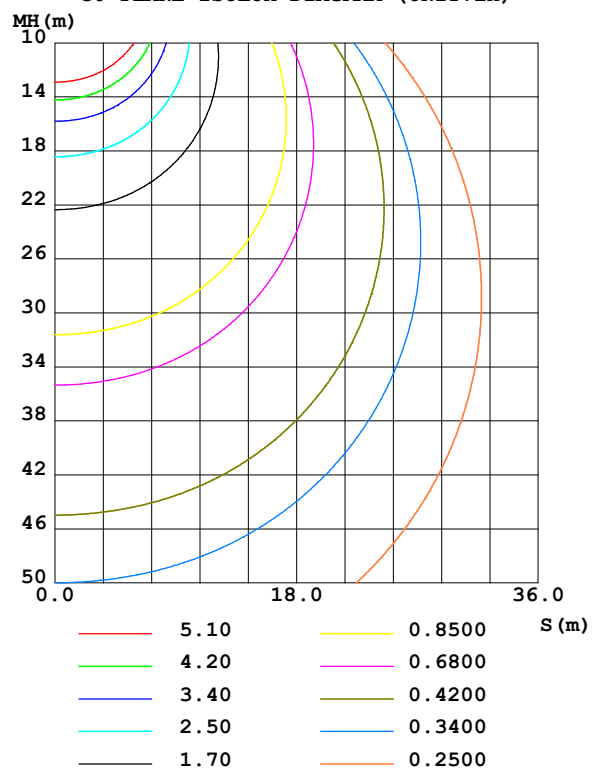
Test:U:230.36V I:0.1225A P:26.283W PF:0.9313 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.81% KDisp:0.9319 Lamp Flux:3482.02x1 lm		
NAME: NU28-LC-28W-1200K-30H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 132.48 lm/W			
MODEL	NU28	Imax (cd)	843.3	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)	3482.0	□ UP,DN(C0-180)	6.7,43.3
NOMINAL FLUX(lm)	3482.02	CIE CLASS	SEMI-D.	□ UP,DN(C180-360)	6.7,43.3
LAMPS INSIDE	1	□ up (%)	13.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	□ down (%)	86.6	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°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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	841.6	836.4	830.2	836.4	841.6	836.4	830.2	836.4	0- 10	80.16	80.16	2.3,2.3
20	828.5	812.3	791.2	812.3	828.5	812.3	791.2	812.3	10- 20	233.6	313.7	9.01,9.01
30	795.0	766.3	725.8	766.3	795.0	766.3	725.8	766.3	20- 30	364.6	678.3	19.5,19.5
40	739.2	697.0	635.0	697.0	739.2	697.0	635.0	697.0	30- 40	457.6	1136	32.6,32.6
50	660.6	604.4	520.8	604.4	660.6	604.4	520.8	604.4	40- 50	500.3	1636	47,47
60	559.3	490.7	386.7	490.7	559.3	490.7	386.7	490.7	50- 60	485.6	2122	60.9,60.9
70	437.6	359.8	238.1	359.8	437.6	359.8	238.1	359.8	60- 70	414.0	2536	72.8,72.8
80	310.8	226.4	90.32	226.4	310.8	226.4	90.32	226.4	70- 80	298.0	2834	81.4,81.4
90	220.2	139.1	5.067	139.1	220.2	139.1	5.067	139.1	80- 90	180.4	3014	86.6,86.6
100	178.9	113.1	6.620	113.1	178.9	113.1	6.620	113.1	90-100	124.6	3139	90.1,90.1
110	152.1	96.92	8.711	96.92	152.1	96.92	8.711	96.92	100-110	102.7	3242	93.1,93.1
120	126.1	80.94	10.62	80.94	126.1	80.94	10.62	80.94	110-120	82.03	3324	95.5,95.5
130	102.1	63.47	12.70	63.47	102.1	63.47	12.70	63.47	120-130	61.46	3385	97.2,97.2
140	80.48	49.96	14.71	49.96	80.48	49.96	14.71	49.96	130-140	43.10	3428	98.5,98.5
150	61.13	39.36	16.74	39.36	61.13	39.36	16.74	39.36	140-150	27.95	3456	99.3,99.3
160	42.74	30.53	18.35	30.53	42.74	30.53	18.35	30.53	150-160	16.18	3472	99.7,99.7
170	28.24	23.77	19.51	23.77	28.24	23.77	19.51	23.77	160-170	7.651	3480	99.9,99.9
180	20.06	19.84	20.02	19.84	20.06	19.84	20.02	19.84	170-180	2.077	3482	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1384.3 lm

%lum = 39.8%

%lamp = 39.8%

Conical surface Flux(130deg): 2341 lm

%lum = 67.2%

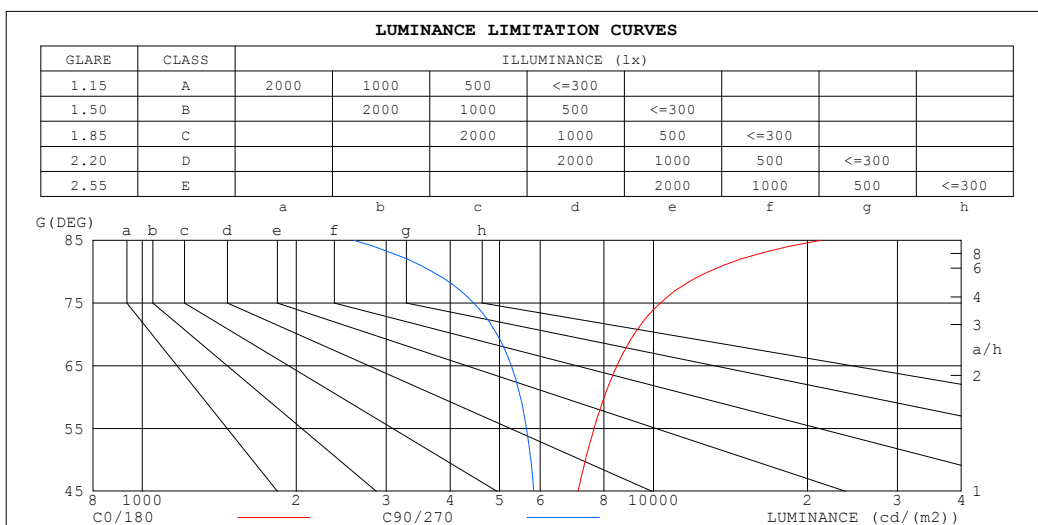
%lamp = 67.2%

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:

LUMINANCE LIMITATION CURVES

Test:U:230.36V I:0.1225A P:26.283W PF:0.9313 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.81% KDisp:0.9319 Lamp Flux:3482.02x1 lm		
NAME: NU28-LC-28W-1200K-30H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	21253	2592
80	12815	3692
75	10314	4447
70	9162	4941
65	8486	5270
60	8010	5490
55	7650	5644
50	7359	5752
45	7116	5828

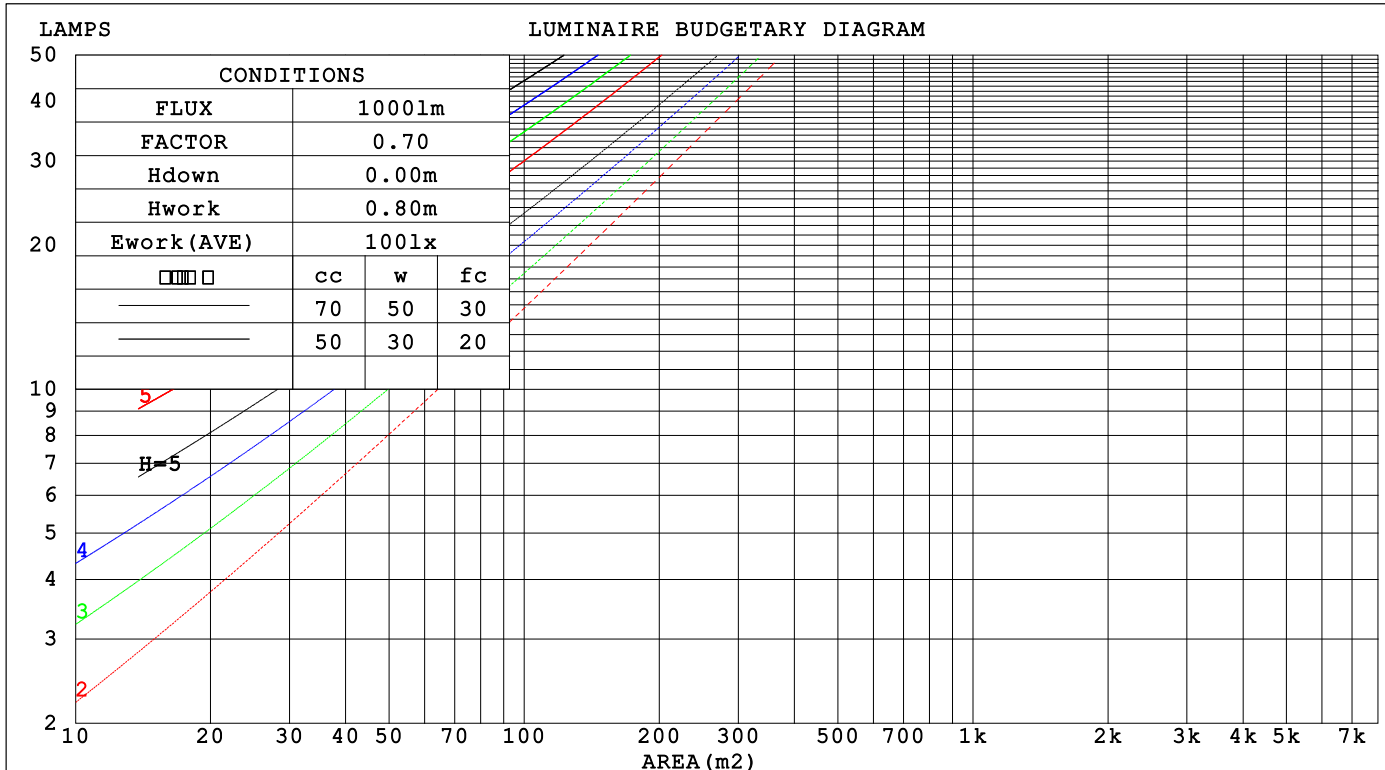
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QC
Test Date:2022-06-21

☐ 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:230.36V I:0.1225A P:26.283W PF:0.9313 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.81% KDisp:0.9319		Lamp Flux:3482.02x1 lm
NAME: NU28-LC-28W-1200K-30H	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	.87														
1.0	.98	.93	.89	.95	.90	.86	.88	.84	.81	.82	.79	.76	.76	.74	.71	.68														
2.0	.84	.77	.71	.81	.74	.69	.76	.70	.65	.70	.66	.62	.65	.62	.58	.55														
3.0	.73	.65	.58	.71	.63	.56	.66	.59	.54	.61	.56	.51	.57	.52	.48	.46														
4.0	.65	.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	.40	.35	.33														
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	.22	.20														
10.0	.35	.27	.22	.34	.27	.22	.32	.26	.21	.31	.25	.20	.29	.23	.20	.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:230.36V I:0.1225A P:26.283W PF:0.9313 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.81% KDisp:0.9319		Lamp Flux:3482.02x1 lm
NAME: NU28-LC-28W-1200K-30H	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	.357 .203 .064	.346 .197 .063	.325 .186 .059	.305 .176 .057	.287 .167 .054	
2.0	.319 .175 .054	.308 .170 .052	.289 .161 .050	.272 .153 .048	.256 .145 .046	
3.0	.287 .153 .046	.278 .149 .045	.261 .141 .043	.245 .134 .041	.231 .128 .039	
4.0	.261 .136 .040	.253 .132 .039	.237 .126 .038	.223 .120 .036	.210 .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	.175 .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	.144 .073 .021	
10.0	.165 .079 .022	.161 .078 .022	.152 .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	.293 .293 .293	.250 .250 .250	.171 .171 .171	.098 .098 .098	.031 .031 .031	
1.0	.287 .259 .234	.245 .222 .201	.168 .153 .139	.097 .088 .081	.031 .028 .026	
2.0	.280 .236 .199	.240 .203 .172	.164 .140 .120	.095 .082 .070	.030 .026 .023	
3.0	.272 .219 .176	.233 .189 .153	.160 .131 .107	.093 .077 .063	.030 .025 .021	
4.0	.265 .206 .161	.227 .178 .140	.156 .124 .099	.090 .073 .058	.029 .024 .019	
5.0	.257 .196 .151	.221 .170 .132	.152 .119 .093	.088 .070 .055	.028 .023 .018	
6.0	.250 .188 .144	.215 .163 .125	.148 .114 .089	.086 .067 .053	.028 .022 .017	
7.0	.243 .181 .138	.209 .157 .121	.144 .110 .085	.084 .065 .051	.027 .021 .017	
8.0	.236 .176 .134	.203 .153 .117	.141 .107 .083	.082 .063 .050	.026 .021 .016	
9.0	.230 .171 .131	.198 .148 .114	.137 .104 .081	.080 .062 .048	.026 .020 .016	
10.0	.224 .167 .129	.193 .145 .112	.134 .102 .080	.078 .060 .048	.025 .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:230.36V I:0.1225A P:26.283W PF:0.9313 Freq:49.99Hz UTHDi:0.22% ITHDi:12.81% KDisp:0.9319Lamp Flux:3482.02x1 lm										
NAME: NU28-LC-28W-1200K-30H					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	15.1	14.1	15.5	16.0
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	16.6	17.7	18.3
8H	20.4	21.5	20.9	22.0	22.6	16.1	17.2	16.7	17.8	18.3
12H	21.1	22.2	21.7	22.7	23.3	16.2	17.2	16.7	17.8	18.3
4H 2H	15.7	17.0	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	19.2
6H	20.9	21.8	21.5	22.4	23.0	17.5	18.4	18.1	19.0	19.6
8H	21.7	22.5	22.3	23.1	23.7	17.6	18.5	18.3	19.1	19.7
12H	22.5	23.3	23.1	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	21.4	22.1	22.1	22.8	23.5	18.5	19.2	19.1	19.8	20.5
8H	22.4	23.0	23.0	23.6	24.4	18.8	19.4	19.4	20.0	20.8
12H	23.5	24.0	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	21.8	17.9	18.6	18.5	19.2	19.9
6H	21.5	22.1	22.2	22.8	23.5	18.8	19.4	19.5	20.1	20.8
8H	22.6	23.1	23.2	23.8	24.5	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 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 3482 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.3)
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:230.36V I:0.1225A P:26.283W PF:0.9313 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.81% KDisp:0.9319 Lamp Flux:3482.02x1 lm		
NAME: NU28-LC-28W-1200K-30H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

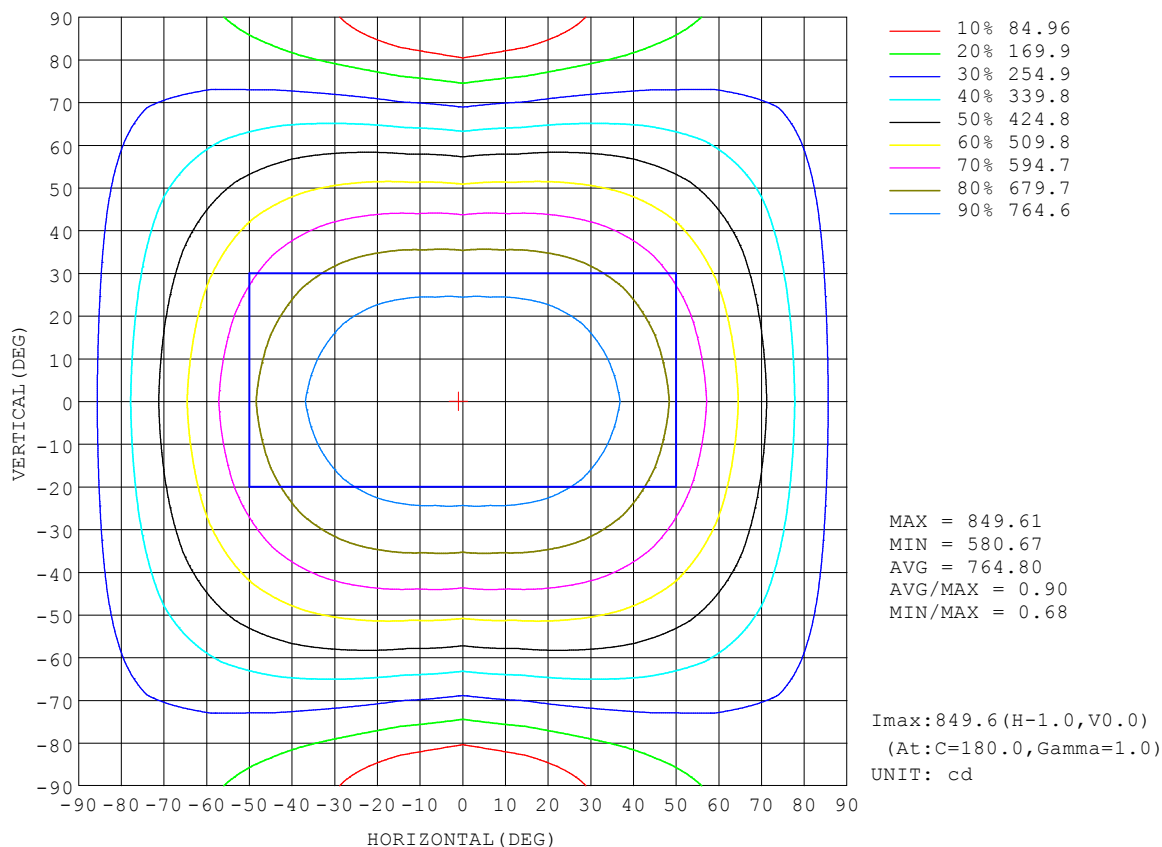
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	50	38	31	49	38	31	47	37	30	23
0.80	60	47	39	58	46	39	56	45	38	30
1.00	68	55	47	66	54	47	63	55	46	37
1.25	75	63	55	73	62	54	69	59	52	43
1.50	80	68	60	77	67	59	73	64	58	48
2.00	87	77	69	84	75	68	79	71	65	55
2.50	92	82	75	88	80	73	83	76	70	59
3.00	95	87	80	92	84	78	86	80	74	62
4.00	100	93	87	96	90	84	90	85	80	67
5.00	103	96	91	99	93	89	92	88	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:230.36V I:0.1225A P:26.283W PF:0.9313 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.81% KDisp:0.9319 Lamp Flux:3482.02x1 lm		
NAME: NU28-LC-28W-1200K-30H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

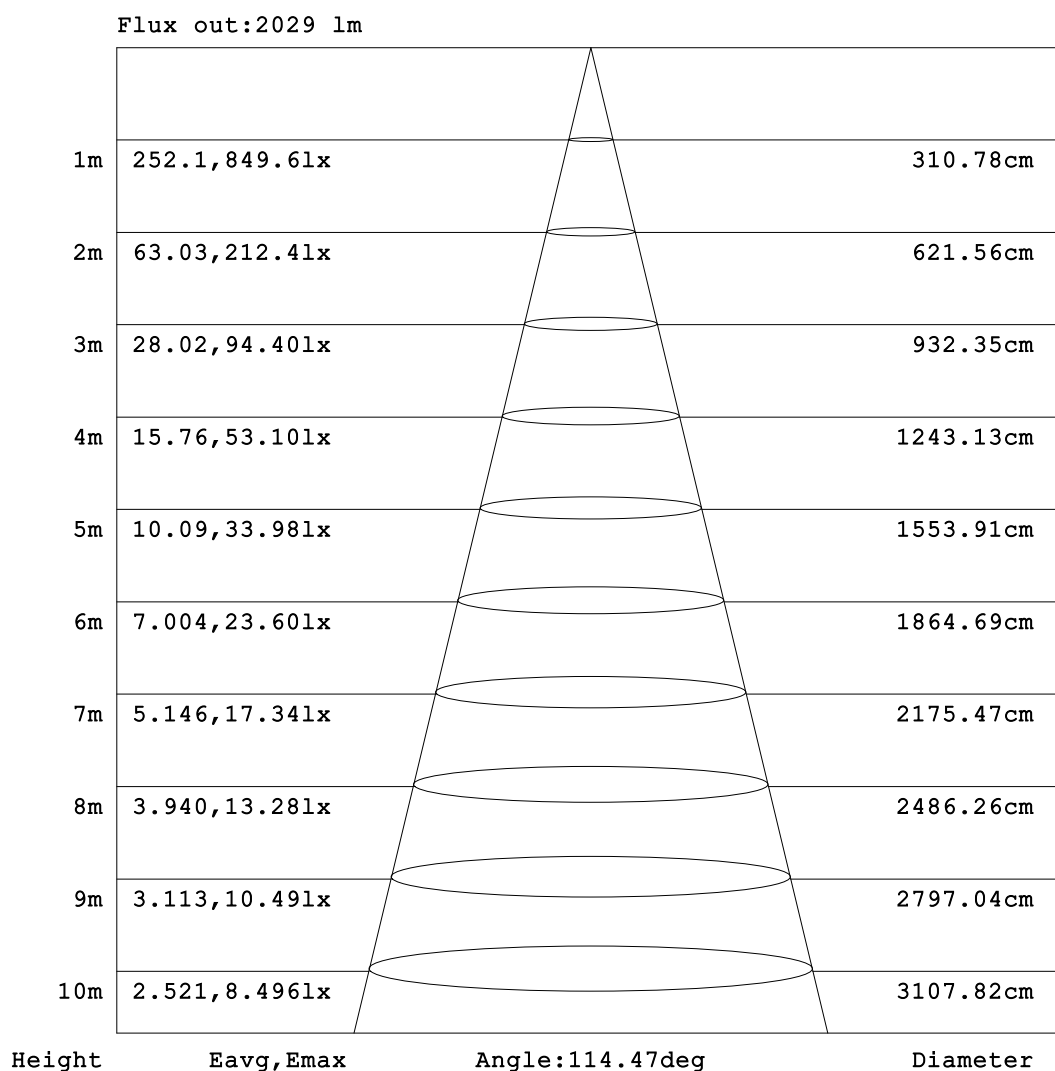


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QC
Test Date:2022-06-21

☐ 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:230.36V I:0.1225A P:26.283W PF:0.9313 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.81% KDisp:0.9319 Lamp Flux:3482.02x1 lm		
NAME: NU28-LC-28W-1200K-30H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:



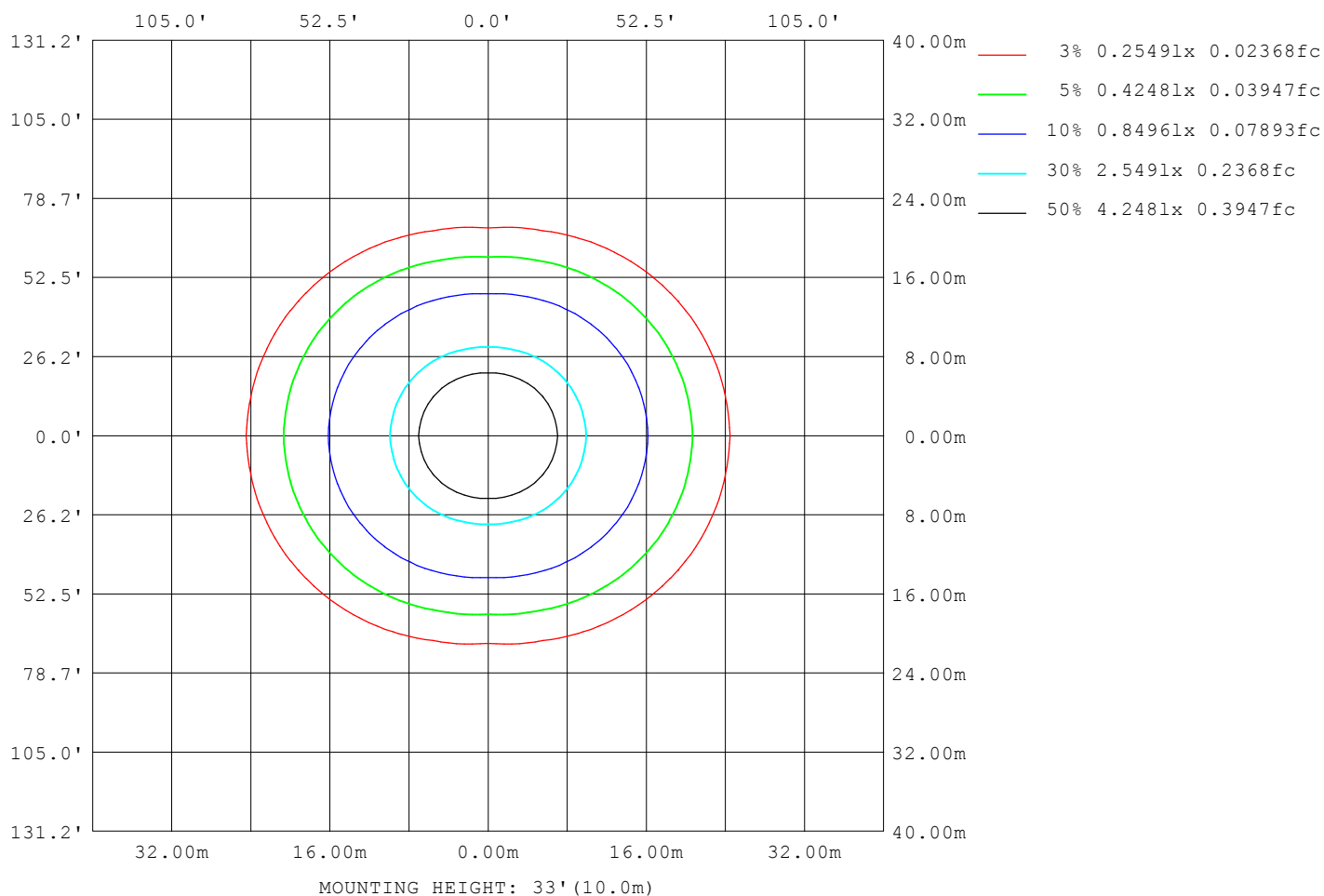
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°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:

ISOLUX DIAGRAM

Test:U:230.36V I:0.1225A P:26.283W PF:0.9313 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.81% KDisp:0.9319 Lamp Flux:3482.02x1 lm		
NAME: NU28-LC-28W-1200K-30H	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:

LED Avg.L Report

Test:U:230.36V I:0.1225A P:26.283W PF:0.9313 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.81% KDisp:0.9319 Lamp Flux:3482.02x1 lm		
NAME: NU28-LC-28W-1200K-30H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

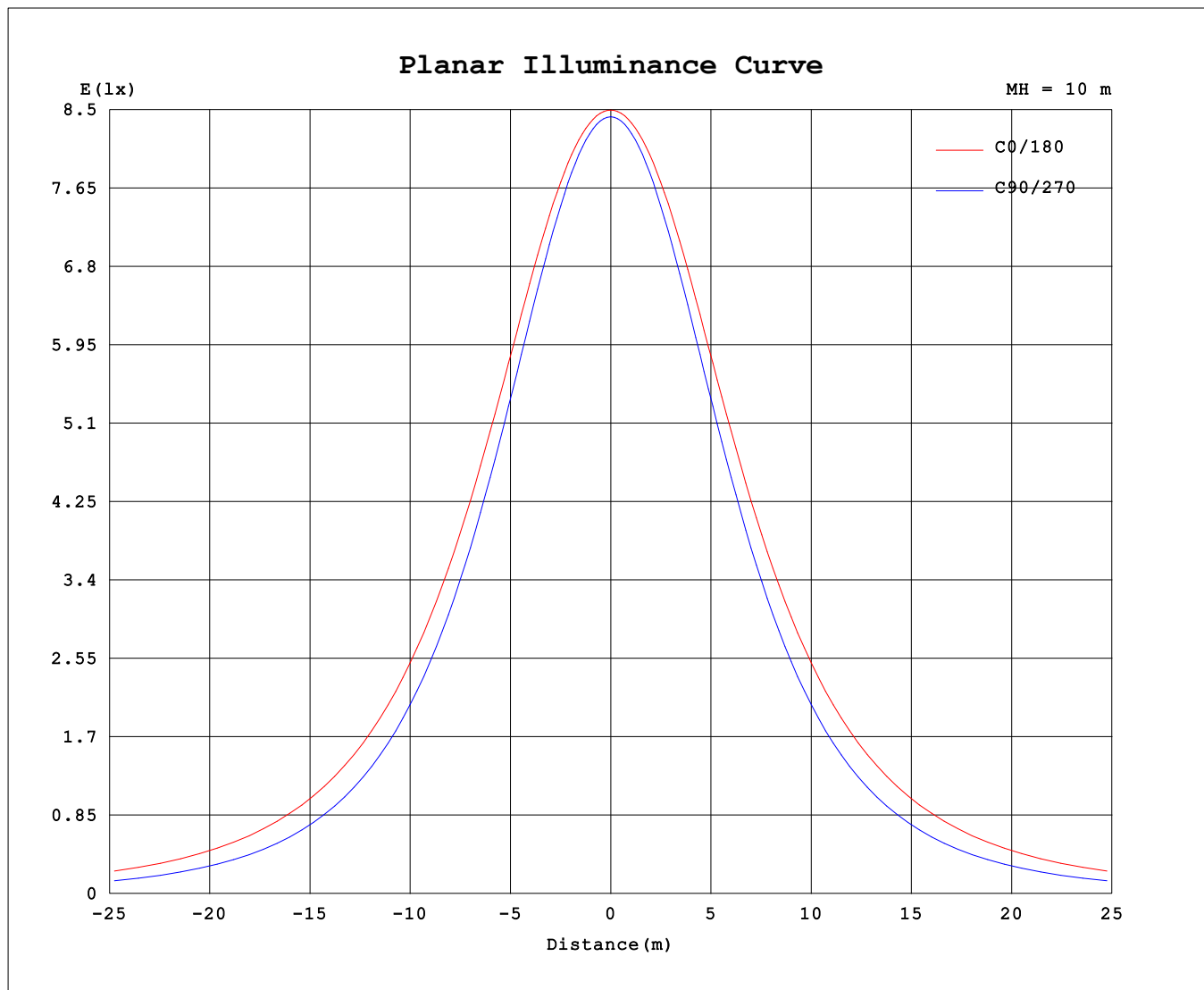
AvgL	cd/m2
L_0~180 (65) av	8423
L_0~180 (75) av	10238
L_0~180 (85) av	21096
L_90~270 (65) av	5276
L_90~270 (75) av	4453
L_90~270 (85) av	2595
L_45 (65) av	7177
L_45 (75) av	8007
L_45 (85) av	14118

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:230.36V I:0.1225A P:26.283W PF:0.9313 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.81% KDisp:0.9319		Lamp Flux:3482.02x1 lm
NAME: NU28-LC-28W-1200K-30H	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	843	843	843	843	843	843	843	843	843	843	843	843	843	843	843	843	843	843	843
5	843	843	842	842	841	840	840	840	841	842	842	843	843	843	842	842	841	840	840
10	842	841	839	836	833	831	830	831	833	836	839	841	842	841	839	836	833	831	830
15	837	836	832	827	821	816	814	816	821	827	832	836	837	836	832	827	821	816	814
20	829	826	821	812	803	794	791	794	803	812	821	826	829	826	821	812	803	794	791
25	814	811	804	792	779	767	762	767	779	792	804	811	814	811	804	792	779	767	762
30	795	791	781	766	749	733	726	733	749	766	781	791	795	791	781	766	749	733	726
35	770	765	753	735	713	693	683	693	713	735	753	765	770	765	753	735	713	693	683
40	739	734	719	697	671	647	635	647	671	697	719	734	739	734	719	697	671	647	635
45	703	696	679	654	623	595	581	595	623	654	679	696	703	696	679	654	623	595	581
50	661	653	634	604	570	538	521	538	570	604	634	653	661	653	634	604	570	538	521
55	613	605	583	550	512	475	456	475	512	550	583	605	613	605	583	550	512	475	456
60	559	550	526	491	449	409	387	409	449	491	526	550	559	550	526	491	449	409	387
65	501	491	465	427	382	338	314	338	382	427	465	491	501	491	465	427	382	338	314
70	438	427	400	360	313	266	238	266	313	360	400	427	438	427	400	360	313	266	238
75	373	362	333	292	242	192	162	192	242	292	333	362	373	362	333	292	242	192	162
80	311	300	270	226	175	123	90.3	123	175	226	270	300	311	300	270	226	175	123	90.3
85	259	248	218	173	121	66.5	31.8	66.5	121	173	218	248	259	248	218	173	121	66.5	31.8
90	220	210	181	139	89.1	37.4	5.07	37.4	89.1	139	181	210	220	210	181	139	89.1	37.4	5.07
95	195	186	160	122	77.7	32.2	5.62	32.2	77.7	122	160	186	195	186	160	122	77.7	32.2	5.62
100	179	171	148	113	72.0	30.1	6.62	30.1	72.0	113	148	171	179	171	148	113	72.0	30.1	6.62
105	165	158	137	105	66.8	28.8	7.68	28.8	66.8	105	137	158	165	158	137	105	66.8	28.8	7.68
110	152	145	126	96.9	62.1	27.7	8.71	27.7	62.1	96.9	126	145	152	145	126	96.9	62.1	27.7	8.71
115	139	133	115	88.8	56.9	26.4	9.61	26.4	56.9	88.8	115	133	139	133	115	88.8	56.9	26.4	9.61
120	126	121	105	80.9	51.6	25.3	10.6	25.3	51.6	80.9	105	121	126	121	105	80.9	51.6	25.3	10.6
125	114	109	95.3	71.9	46.3	24.4	11.7	24.4	46.3	71.9	95.3	109	114	109	95.3	71.9	46.3	24.4	11.7
130	102	97.9	85.0	63.5	42.5	23.5	12.7	23.5	42.5	63.5	85.0	97.9	102	97.9	85.0	63.5	42.5	23.5	12.7
135	91.0	87.4	74.1	56.4	39.1	22.8	13.7	22.8	39.1	56.4	74.1	87.4	91.0	87.4	74.1	56.4	39.1	22.8	13.7
140	80.5	77.4	64.6	50.0	35.8	22.2	14.7	22.2	35.8	50.0	64.6	77.4	80.5	77.4	64.6	50.0	35.8	22.2	14.7
145	70.6	67.4	55.7	44.6	32.7	21.6	15.8	21.6	32.7	44.6	55.7	67.4	70.6	67.4	55.7	44.6	32.7	21.6	15.8
150	61.1	57.7	47.8	39.4	30.0	21.4	16.7	21.4	30.0	39.4	47.8	57.7	61.1	57.7	47.8	39.4	30.0	21.4	16.7
155	51.9	48.8	41.1	34.4	27.8	21.1	17.6	21.1	27.8	34.4	41.1	48.8	51.9	48.8	41.1	34.4	27.8	21.1	17.6
160	42.7	39.1	34.8	30.5	25.7	20.8	18.4	20.8	25.7	30.5	34.8	39.1	42.7	39.1	34.8	30.5	25.7	20.8	18.4
165	35.2	31.5	29.2	27.0	23.8	20.4	19.0	20.4	23.8	27.0	29.2	31.5	35.2	31.5	29.2	27.0	23.8	20.4	19.0
170	28.2	25.8	24.8	23.8	21.9	20.2	19.5	20.2	21.9	23.8	24.8	25.8	28.2	25.8	24.8	23.8	21.9	20.2	19.5
175	22.6	21.4	21.3	21.0	20.5	20.1	19.9	20.1	20.5	21.0	21.3	21.4	22.6	21.4	21.3	21.0	20.5	20.1	19.9
180	20.1	19.5	19.7	19.8	19.9	20.0	20.0	20.0	19.9	19.8	19.7	19.5	20.1	19.5	19.7	19.8	19.9	20.0	20.0

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:230.36V I:0.1225A P:26.283W PF:0.9313 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.81% KDisp:0.9319 Lamp Flux:3482.02x1 lm		
NAME: NU28-LC-28W-1200K-30H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) □ (DEG)	285	300	315	330	345													
0	843	843	843	843	843													
5	840	841	842	842	843													
10	831	833	836	839	841													
15	816	821	827	832	836													
20	794	803	812	821	826													
25	767	779	792	804	811													
30	733	749	766	781	791													
35	693	713	735	753	765													
40	647	671	697	719	734													
45	595	623	654	679	696													
50	538	570	604	634	653													
55	475	512	550	583	605													
60	409	449	491	526	550													
65	338	382	427	465	491													
70	266	313	360	400	427													
75	192	242	292	333	362													
80	123	175	226	270	300													
85	66.5	121	173	218	248													
90	37.4	89.1	139	181	210													
95	32.2	77.7	122	160	186													
100	30.1	72.0	113	148	171													
105	28.8	66.8	105	137	158													
110	27.7	62.1	96.9	126	145													
115	26.4	56.9	88.8	115	133													
120	25.3	51.6	80.9	105	121													
125	24.4	46.3	71.9	95.3	109													
130	23.5	42.5	63.5	85.0	97.9													
135	22.8	39.1	56.4	74.1	87.4													
140	22.2	35.8	50.0	64.6	77.4													
145	21.6	32.7	44.6	55.7	67.4													
150	21.4	30.0	39.4	47.8	57.7													
155	21.1	27.8	34.4	41.1	48.8													
160	20.8	25.7	30.5	34.8	39.1													
165	20.4	23.8	27.0	29.2	31.5													
170	20.2	21.9	23.8	24.8	25.8													
175	20.1	20.5	21.0	21.3	21.4													
180	20.0	19.9	19.8	19.7	19.5													

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: