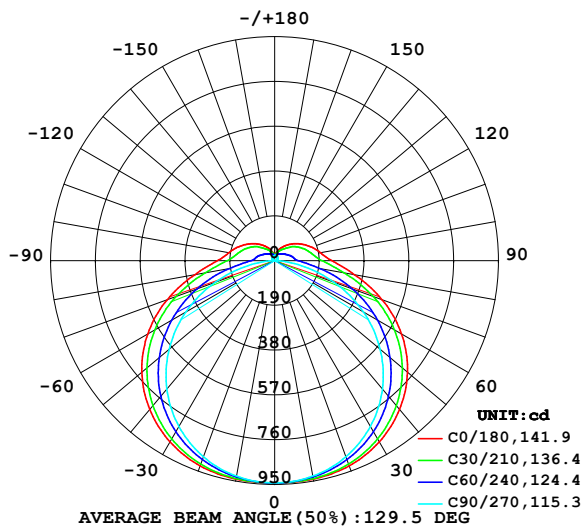


LUMINAIRE PHOTOMETRIC TEST REPORT

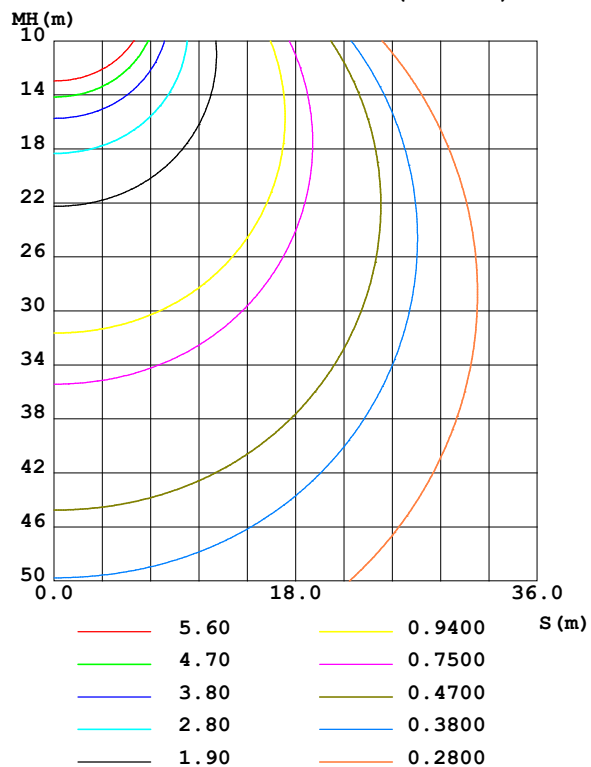
Test:U:230.43V I:0.1335A P:27.852W PF:0.9052 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.80% KDisp:0.9505 Lamp Flux:3881.76x1 lm		
NAME: NU28-LC-29W-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 139.37 lm/W			
MODEL	NU28	I _{max} (cd)	942.9	S/MH(C0/180)	1.41
NOMINAL POWER(W)	44	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	3881.8	□ UP,DN(C0-180)	6.6,43.4
NOMINAL FLUX(lm)	3881.76	CIE CLASS	SEMI-D.	□ UP,DN(C180-360)	6.6,43.4
LAMPS INSIDE	1	□ up (%)	13.3	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	□ down (%)	86.7	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:2022-06-24

□ 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	941.3	935.3	928.8	935.3	941.3	935.3	928.8	935.3	0- 10	89.64	89.64	2.31,2.31
20	926.3	908.9	885.1	908.9	926.3	908.9	885.1	908.9	10- 20	261.3	350.9	9.04,9.04
30	887.9	857.2	812.5	857.2	887.9	857.2	812.5	857.2	20- 30	407.9	758.8	19.5,19.5
40	824.7	779.4	711.5	779.4	824.7	779.4	711.5	779.4	30- 40	511.8	1271	32.7,32.7
50	735.8	675.8	584.3	675.8	735.8	675.8	584.3	675.8	40- 50	559.3	1830	47.1,47.1
60	621.7	548.5	434.6	548.5	621.7	548.5	434.6	548.5	50- 60	542.7	2373	61.1,61.1
70	485.0	401.8	267.7	401.8	485.0	401.8	267.7	401.8	60- 70	462.2	2835	73,73
80	343.9	252.3	101.2	252.3	343.9	252.3	101.2	252.3	70- 80	331.9	3167	81.6,81.6
90	243.8	155.1	5.479	155.1	243.8	155.1	5.479	155.1	80- 90	200.5	3367	86.7,86.7
100	197.6	125.9	7.616	125.9	197.6	125.9	7.616	125.9	90-100	138.3	3505	90.3,90.3
110	168.1	107.6	9.719	107.6	168.1	107.6	9.719	107.6	100-110	113.7	3619	93.2,93.2
120	139.4	85.68	11.94	85.68	139.4	85.68	11.94	85.68	110-120	89.96	3709	95.6,95.6
130	112.7	67.21	14.19	67.21	112.7	67.21	14.19	67.21	120-130	66.89	3776	97.3,97.3
140	88.74	53.79	16.51	53.79	88.74	53.79	16.51	53.79	130-140	46.71	3823	98.5,98.5
150	67.14	42.87	18.48	42.87	67.14	42.87	18.48	42.87	140-150	30.47	3853	99.3,99.3
160	47.69	34.17	20.08	34.17	47.69	34.17	20.08	34.17	150-160	17.79	3871	99.7,99.7
170	30.98	26.24	21.26	26.24	30.98	26.24	21.26	26.24	160-170	8.436	3879	99.9,99.9
180	21.82	21.59	21.82	21.59	21.82	21.59	21.82	21.59	170-180	2.287	3882	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1548.2 lm

%lum = 39.9%

%lamp = 39.9%

Conical surface Flux(130deg): 2617.4 lm

%lum = 67.4%

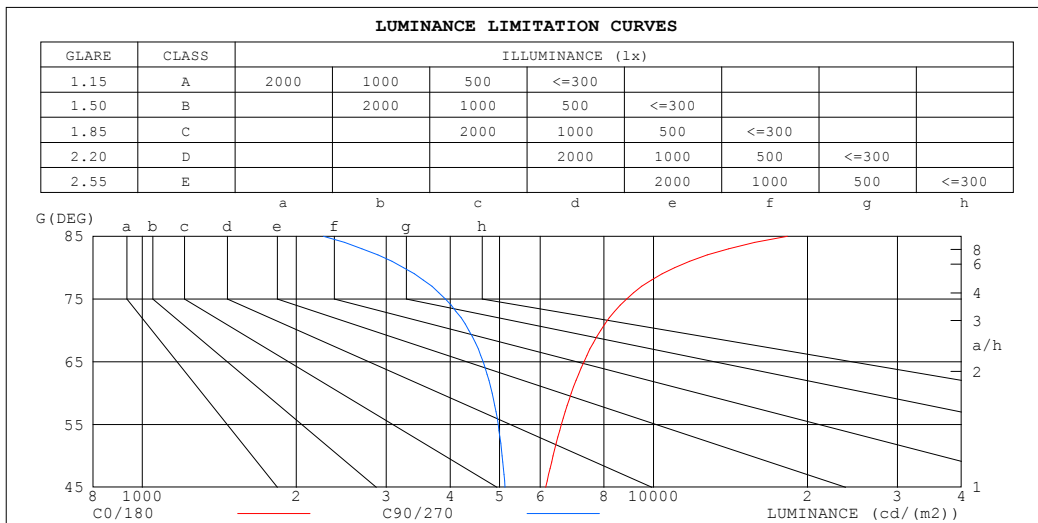
%lamp = 67.4%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:QC
 Test Date:2022-06-24

□ 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:230.43V I:0.1335A P:27.852W PF:0.9052 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.80% KDisp:0.9505 Lamp Flux:3881.76x1 lm		
NAME: NU28-LC-29W-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	18261	2261
80	11002	3243
75	8858	3916
70	7877	4353
65	7307	4643
60	6907	4835
55	6604	4966
50	6359	5056
45	6154	5123

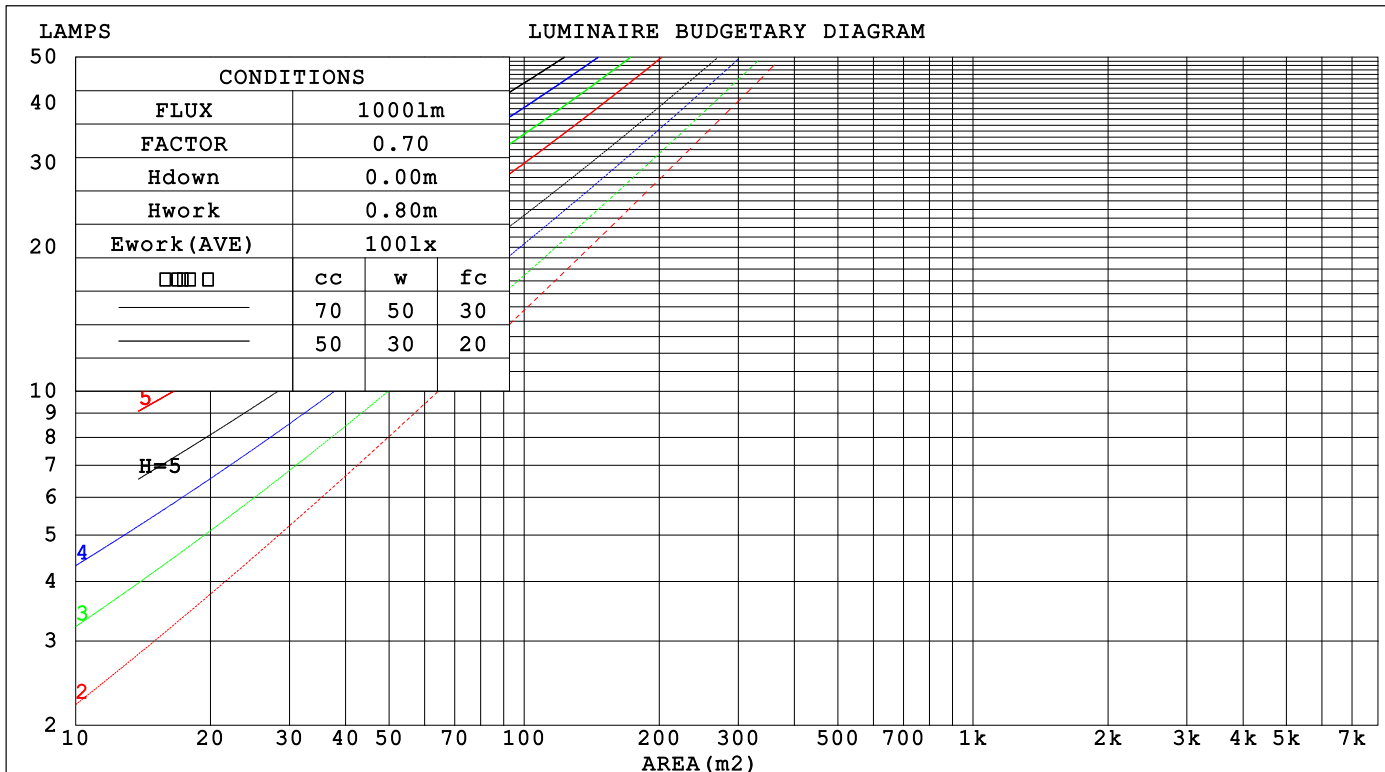
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:QC
Test Date:2022-06-24

☐ 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:230.43V I:0.1335A P:27.852W PF:0.9052 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.80% KDisp:0.9505		Lamp Flux:3881.76x1 lm
NAME: NU28-LC-29W-1500K-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															Coefficients of Utilization(CU)														
0.0	1.16	1.16	1.16	1.12	1.12	1.12	1.04	1.04	1.04	.97	.97	.97	.90	.90	.90	.87														
1.0	.98	.93	.89	.95	.90	.86	.88	.84	.81	.82	.79	.76	.76	.74	.72	.68														
2.0	.84	.77	.71	.81	.75	.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	.49	.46														
4.0	.65	.55	.48	.62	.54	.47	.58	.51	.45	.54	.48	.43	.51	.45	.41	.38														
5.0	.57	.48	.41	.55	.47	.40	.52	.44	.39	.48	.42	.37	.45	.40	.35	.33														
6.0	.51	.42	.35	.50	.41	.35	.47	.39	.33	.44	.37	.32	.41	.35	.31	.28														
7.0	.46	.37	.31	.45	.36	.30	.42	.35	.29	.40	.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	.39	.30	.24	.37	.29	.24	.35	.28	.23	.33	.27	.22	.31	.26	.22	.20														
10.0	.35	.27	.22	.34	.27	.22	.33	.26	.21	.31	.25	.20	.29	.24	.20	.18														



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QC
Test Date:2022-06-24

☐ 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:230.43V I:0.1335A P:27.852W PF:0.9052 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.80% KDisp:0.9505		Lamp Flux:3881.76x1 lm
NAME: NU28-LC-29W-1500K-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	.357 .203 .064	.346 .197 .063	.325 .186 .059	.305 .176 .057	.288 .167 .054	
2.0	.318 .175 .054	.308 .170 .052	.290 .161 .050	.272 .153 .048	.256 .145 .046	
3.0	.287 .153 .046	.278 .149 .045	.261 .142 .043	.245 .134 .041	.231 .128 .040	
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	.186 .094 .027	.175 .090 .026	.165 .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	.162 .080 .023	.152 .076 .022	.144 .073 .021	
10.0	.165 .079 .022	.161 .078 .022	.152 .074 .021	.143 .071 .020	.135 .068 .020	

<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	.291 .291 .291	.249 .249 .249	.170 .170 .170	.098 .098 .098	.031 .031 .031	
1.0	.285 .258 .232	.244 .221 .200	.167 .152 .138	.096 .088 .080	.031 .028 .026	
2.0	.278 .234 .197	.238 .202 .171	.163 .140 .119	.094 .081 .070	.030 .026 .023	
3.0	.271 .217 .175	.232 .188 .152	.159 .130 .106	.092 .076 .063	.030 .025 .021	
4.0	.263 .205 .160	.226 .177 .139	.155 .123 .098	.090 .072 .058	.029 .024 .019	
5.0	.256 .195 .150	.220 .169 .130	.151 .118 .092	.088 .069 .055	.028 .023 .018	
6.0	.248 .187 .142	.214 .162 .124	.147 .113 .088	.085 .067 .052	.028 .022 .017	
7.0	.242 .180 .137	.208 .156 .119	.144 .109 .085	.083 .064 .050	.027 .021 .017	
8.0	.235 .174 .133	.202 .151 .116	.140 .106 .082	.081 .063 .049	.026 .021 .016	
9.0	.229 .170 .130	.197 .147 .113	.137 .103 .080	.080 .061 .048	.026 .020 .016	
10.0	.223 .165 .127	.192 .144 .111	.133 .101 .079	.078 .060 .047	.025 .020 .016	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QC
Test Date:2022-06-24

☐ 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:230.43V I:0.1335A P:27.852W PF:0.9052 Freq:49.99Hz UTHDi:0.22% ITHDi:12.80% KDisp:0.9505Lamp Flux:3881.76x1 lm											
NAME: NU28-LC-29W-1500K-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		14.3	15.7	14.8	16.1	16.6	12.8	14.3	13.3	14.7	15.2
3H		16.5	17.8	17.0	18.3	18.8	14.3	15.6	14.8	16.1	16.6
4H		17.7	18.9	18.2	19.4	19.9	14.9	16.1	15.4	16.6	17.1
6H		18.9	20.0	19.4	20.5	21.1	15.3	16.4	15.8	16.9	17.5
8H		19.5	20.6	20.0	21.1	21.7	15.3	16.5	15.9	17.0	17.5
12H		20.2	21.3	20.7	21.8	22.4	15.4	16.4	15.9	17.0	17.6
4H 2H		14.9	16.1	15.4	16.6	17.1	13.8	15.0	14.3	15.5	16.0
3H		17.3	18.4	17.9	18.9	19.5	15.5	16.6	16.0	17.1	17.7
4H		18.6	19.6	19.2	20.2	20.8	16.2	17.2	16.8	17.7	18.4
6H		20.0	20.9	20.6	21.5	22.1	16.7	17.6	17.3	18.2	18.8
8H		20.8	21.6	21.4	22.2	22.8	16.9	17.7	17.5	18.3	18.9
12H		21.6	22.4	22.2	23.0	23.7	16.9	17.7	17.5	18.3	19.0
8H 4H		18.9	19.7	19.5	20.3	21.0	16.9	17.7	17.5	18.3	19.0
6H		20.6	21.2	21.2	21.9	22.6	17.7	18.4	18.3	19.0	19.7
8H		21.5	22.1	22.1	22.8	23.5	18.0	18.6	18.6	19.2	19.9
12H		22.6	23.1	23.3	23.8	24.5	18.2	18.7	18.8	19.4	20.1
12H 4H		18.9	19.7	19.5	20.3	21.0	17.1	17.8	17.7	18.4	19.1
6H		20.6	21.3	21.3	21.9	22.6	18.0	18.6	18.7	19.3	20.0
8H		21.7	22.2	22.3	22.9	23.6	18.4	19.0	19.1	19.6	20.4
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, 3882 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.7)
Area: 0.1797 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QC
Test Date:2022-06-24

☐ 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:230.43V I:0.1335A P:27.852W PF:0.9052 Freq:49.99Hz UTHDi:0.22% ITHDi:12.80% KDisp:0.9505 Lamp Flux:3881.76x1 lm		
NAME: NU28-LC-29W-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

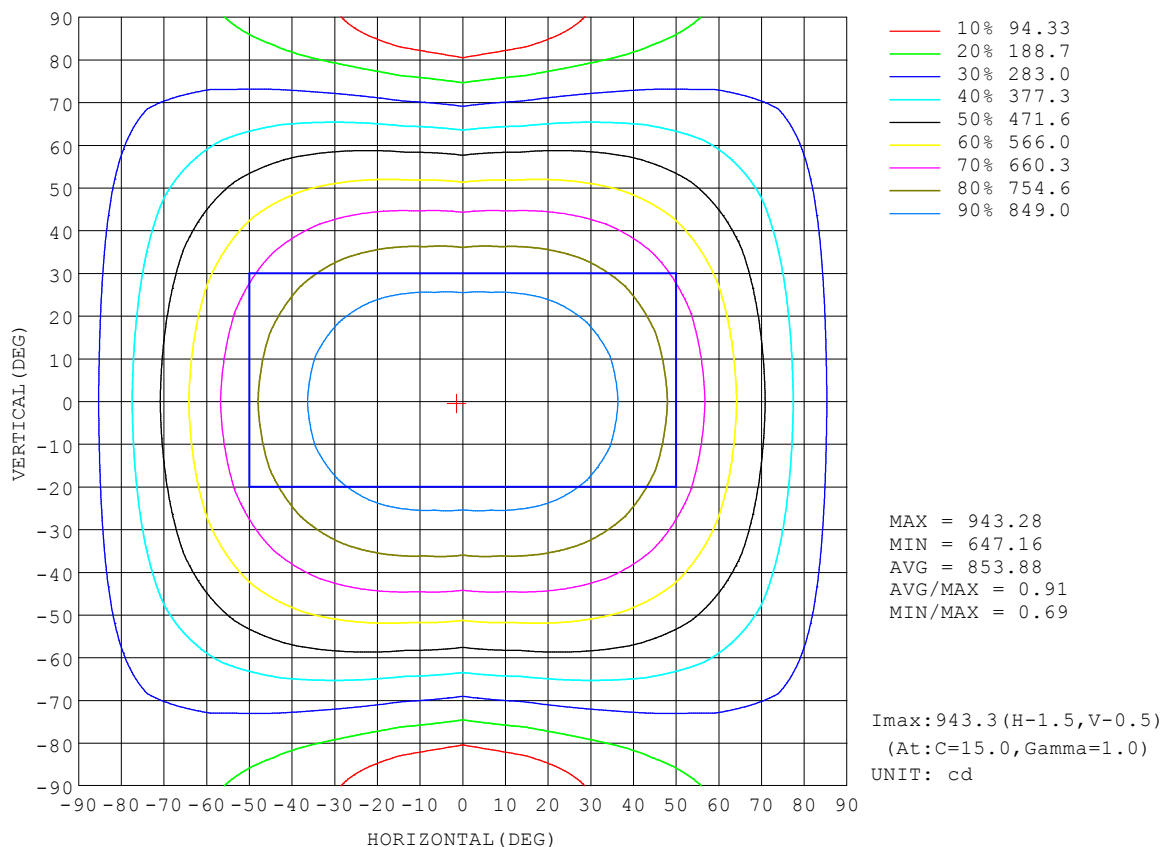
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	50	38	31	49	38	31	47	37	30	23
0.80	60	47	39	58	46	39	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	53	43
1.50	80	69	60	78	67	59	73	64	58	48
2.00	87	77	69	84	75	68	79	72	65	55
2.50	92	82	75	89	80	73	83	76	70	59
3.00	95	87	80	92	84	78	86	80	75	63
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: 2022-06-24

☐ 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:230.43V I:0.1335A P:27.852W PF:0.9052 Freq:49.99Hz UTHDi:0.22% ITHDi:12.80% KDisp:0.9505 Lamp Flux:3881.76x1 lm		
NAME: NU28-LC-29W-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

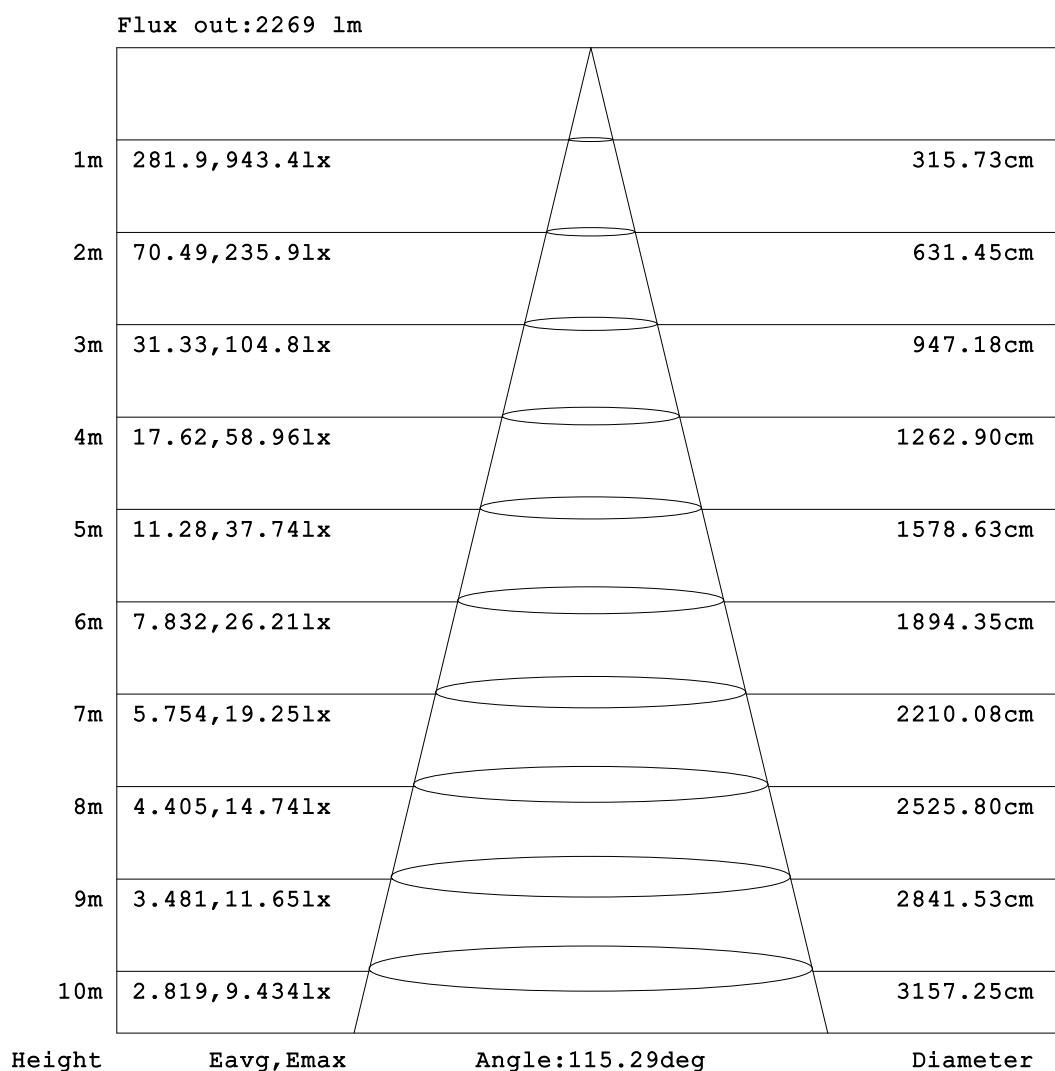


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:QC
 Test Date:2022-06-24

☐ 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:230.43V I:0.1335A P:27.852W PF:0.9052 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.80% KDisp:0.9505 Lamp Flux:3881.76x1 lm		
NAME: NU28-LC-29W-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:



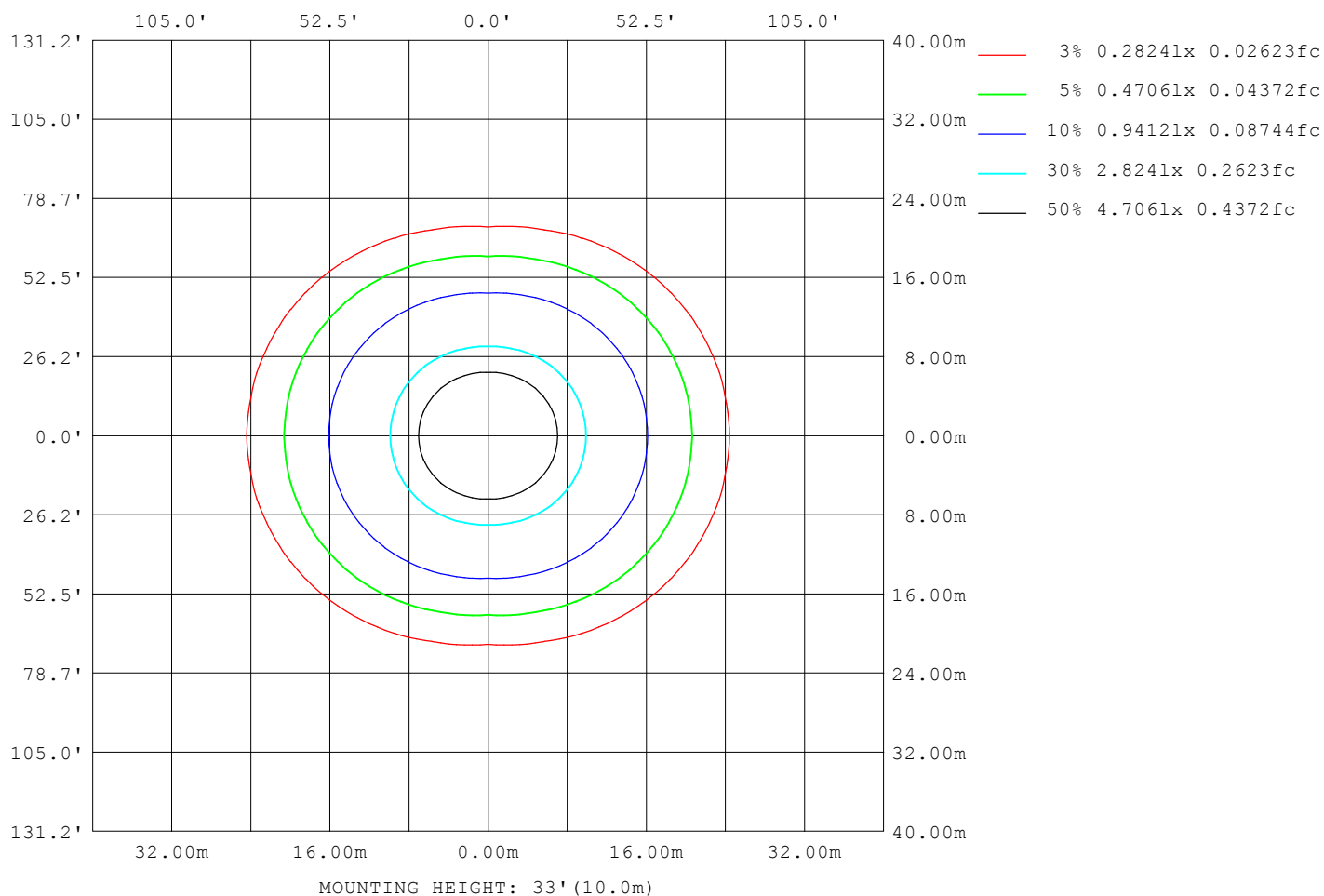
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QC
Test Date:2022-06-24

☐ 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:230.43V I:0.1335A P:27.852W PF:0.9052 Freq:49.99Hz UTHDi:0.22% ITHDi:12.80% KDisp:0.9505 Lamp Flux:3881.76x1 lm		
NAME: NU28-LC-29W-1500K-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:2022-06-24

☐ 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:230.43V I:0.1335A P:27.852W PF:0.9052 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.80% KDisp:0.9505 Lamp Flux:3881.76x1 lm		
NAME: NU28-LC-29W-1500K-40H	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Ervan	SUR.:	Shielding Angle:

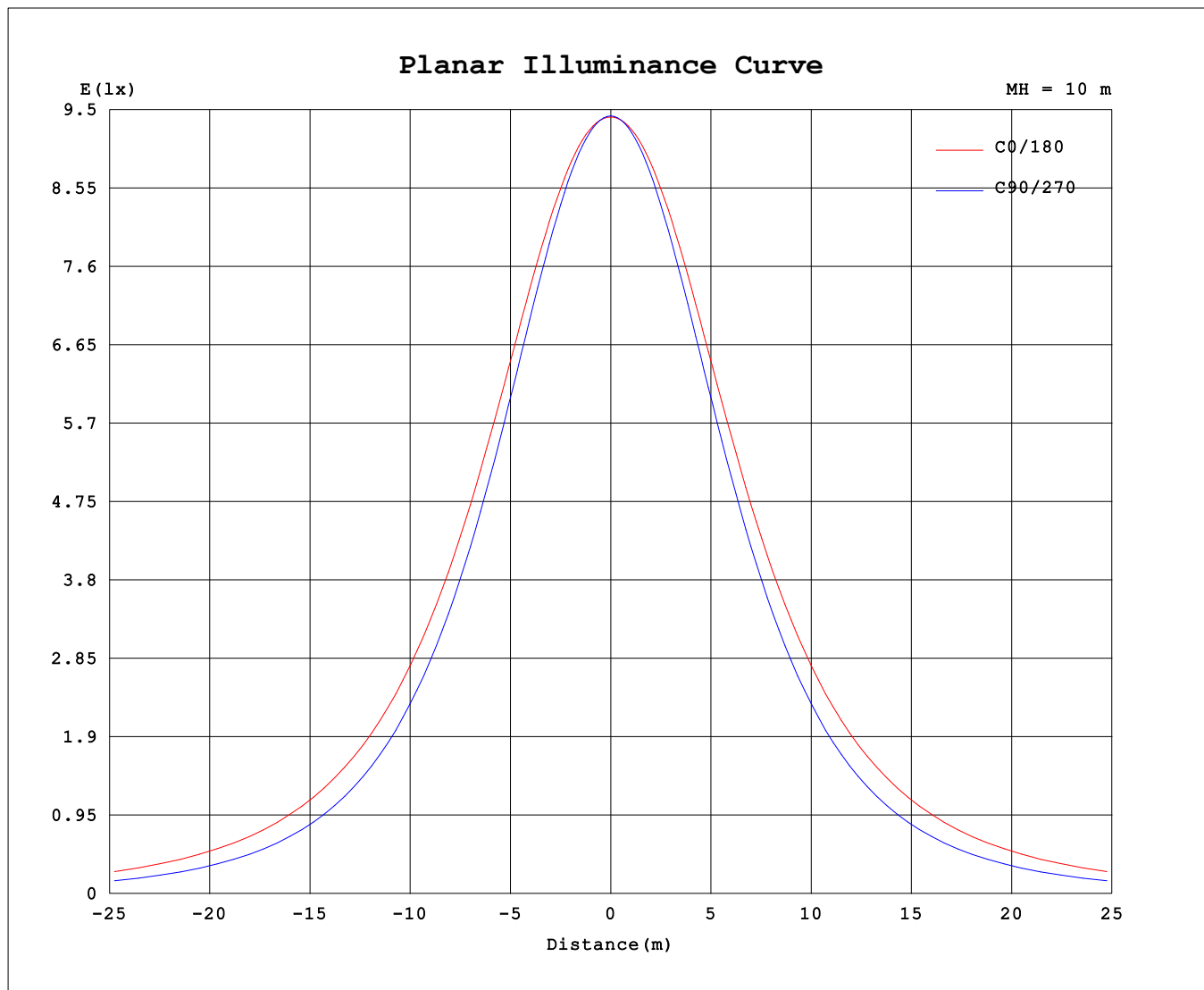
AvgL	cd/m2
L_0~180 (65) av	7320
L_0~180 (75) av	8874
L_0~180 (85) av	18294
L_90~270 (65) av	4645
L_90~270 (75) av	3918
L_90~270 (85) av	2262
L_45 (65) av	6281
L_45 (75) av	6989
L_45 (85) av	12332

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QC
Test Date:2022-06-24

☐ 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: 2022-06-24

☐ 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:230.43V I:0.1335A P:27.852W PF:0.9052 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.80% KDisp:0.9505		Lamp Flux:3881.76x1 lm
NAME: NU28-LC-29W-1500K-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	943	943	943	943	943	943	943	943	943	943	943	943	943	943	943	943	943	943	943
5	943	942	942	941	940	940	939	940	940	941	942	942	943	942	942	941	940	940	939
10	941	940	939	935	932	930	929	930	932	935	939	940	941	940	939	935	932	930	929
15	936	935	931	925	918	913	911	913	918	925	931	935	936	935	931	925	918	913	911
20	926	924	918	909	898	889	885	889	898	909	918	924	926	924	918	909	898	889	885
25	910	907	899	886	872	858	852	858	872	886	899	907	910	907	899	886	872	858	852
30	888	884	873	857	838	821	812	821	838	857	873	884	888	884	873	857	838	821	812
35	859	855	842	822	798	776	765	776	798	822	842	855	859	855	842	822	798	776	765
40	825	819	803	779	752	725	712	725	752	779	803	819	825	819	803	779	752	725	712
45	783	777	758	731	699	667	651	667	699	731	758	777	783	777	758	731	699	667	651
50	736	728	707	676	639	603	584	603	639	676	707	728	736	728	707	676	639	603	584
55	682	673	650	615	574	534	512	534	574	615	650	673	682	673	650	615	574	534	512
60	622	612	586	549	504	459	435	459	504	549	586	612	622	612	586	549	504	459	435
65	556	545	518	477	429	381	353	381	429	477	518	545	556	545	518	477	429	381	353
70	485	474	445	402	351	299	268	299	351	402	445	474	485	474	445	402	351	299	268
75	413	401	371	325	272	216	182	216	272	325	371	401	413	401	371	325	272	216	182
80	344	332	300	252	196	139	101	139	196	252	300	332	344	332	300	252	196	139	101
85	287	274	242	193	135	74.8	35.4	74.8	135	193	242	274	287	274	242	193	135	74.8	35.4
90	244	232	201	155	99.9	42.2	5.48	42.2	99.9	155	201	232	244	232	201	155	99.9	42.2	5.48
95	216	205	177	136	87.1	36.4	6.47	36.4	87.1	136	177	205	216	205	177	136	87.1	36.4	6.47
100	198	188	163	126	80.5	33.9	7.62	33.9	80.5	126	163	188	198	188	163	126	80.5	33.9	7.62
105	183	174	151	117	74.6	32.0	8.76	32.0	74.6	117	151	174	183	174	151	117	74.6	32.0	8.76
110	168	160	139	108	67.3	29.8	9.72	29.8	67.3	108	139	160	168	160	139	108	67.3	29.8	9.72
115	154	147	128	98.0	60.6	28.6	10.8	28.6	60.6	98.0	128	147	154	147	128	98.0	60.6	28.6	10.8
120	139	133	116	85.7	54.5	27.4	11.9	27.4	54.5	85.7	116	133	139	133	116	85.7	54.5	27.4	11.9
125	126	120	105	74.3	49.7	26.4	13.1	26.4	49.7	74.3	105	120	126	120	105	74.3	49.7	26.4	13.1
130	113	108	91.8	67.2	45.6	25.6	14.2	25.6	45.6	67.2	91.8	108	113	108	91.8	67.2	45.6	25.6	14.2
135	100	96.4	78.4	60.2	42.1	24.9	15.3	24.9	42.1	60.2	78.4	96.4	100	96.4	78.4	60.2	42.1	24.9	15.3
140	88.7	85.3	68.1	53.8	38.6	24.5	16.5	24.5	38.6	53.8	68.1	85.3	88.7	85.3	68.1	53.8	38.6	24.5	16.5
145	77.6	74.1	59.1	48.1	35.9	24.2	17.5	24.2	35.9	48.1	59.1	74.1	77.6	74.1	59.1	48.1	35.9	24.2	17.5
150	67.1	63.5	52.7	42.9	33.6	23.9	18.5	23.9	33.6	42.9	52.7	63.5	67.1	63.5	52.7	42.9	33.6	23.9	18.5
155	57.2	51.4	45.7	38.4	31.1	23.5	19.3	23.5	31.1	38.4	45.7	51.4	57.2	51.4	45.7	38.4	31.1	23.5	19.3
160	47.7	41.8	38.6	34.2	28.6	23.1	20.1	23.1	28.6	34.2	38.6	41.8	47.7	41.8	38.6	34.2	28.6	23.1	20.1
165	38.9	34.2	32.6	30.0	26.3	22.7	20.7	22.7	26.3	30.0	32.6	34.2	38.9	34.2	32.6	30.0	26.3	22.7	20.7
170	31.0	28.3	27.7	26.2	24.2	22.2	21.3	22.2	24.2	26.2	27.7	28.3	31.0	28.3	27.7	26.2	24.2	22.2	21.3
175	24.9	23.7	23.6	23.2	22.5	21.9	21.7	21.9	22.5	23.2	23.6	23.7	24.9	23.7	23.6	23.2	22.5	21.9	21.7
180	21.8	21.4	21.5	21.6	21.7	21.8	21.8	21.8	21.7	21.6	21.5	21.4	21.8	21.4	21.5	21.6	21.7	21.8	21.8

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QC
Test Date:2022-06-24

☐ 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:230.43V I:0.1335A P:27.852W PF:0.9052 Freq:49.99Hz		
UTHDi:0.22% ITHDi:12.80% KDisp:0.9505 Lamp Flux:3881.76x1 lm		
NAME: NU28-LC-29W-1500K-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	943	943	943	943	943													
5	940	940	941	942	942													
10	930	932	935	939	940													
15	913	918	925	931	935													
20	889	898	909	918	924													
25	858	872	886	899	907													
30	821	838	857	873	884													
35	776	798	822	842	855													
40	725	752	779	803	819													
45	667	699	731	758	777													
50	603	639	676	707	728													
55	534	574	615	650	673													
60	459	504	549	586	612													
65	381	429	477	518	545													
70	299	351	402	445	474													
75	216	272	325	371	401													
80	139	196	252	300	332													
85	74.8	135	193	242	274													
90	42.2	99.9	155	201	232													
95	36.4	87.1	136	177	205													
100	33.9	80.5	126	163	188													
105	32.0	74.6	117	151	174													
110	29.8	67.3	108	139	160													
115	28.6	60.6	98.0	128	147													
120	27.4	54.5	85.7	116	133													
125	26.4	49.7	74.3	105	120													
130	25.6	45.6	67.2	91.8	108													
135	24.9	42.1	60.2	78.4	96.4													
140	24.5	38.6	53.8	68.1	85.3													
145	24.2	35.9	48.1	59.1	74.1													
150	23.9	33.6	42.9	52.7	63.5													
155	23.5	31.1	38.4	45.7	51.4													
160	23.1	28.6	34.2	38.6	41.8													
165	22.7	26.3	30.0	32.6	34.2													
170	22.2	24.2	26.2	27.7	28.3													
175	21.9	22.5	23.2	23.6	23.7													
180	21.8	21.7	21.6	21.5	21.4													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:QC
Test Date:2022-06-24

☐ 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: