

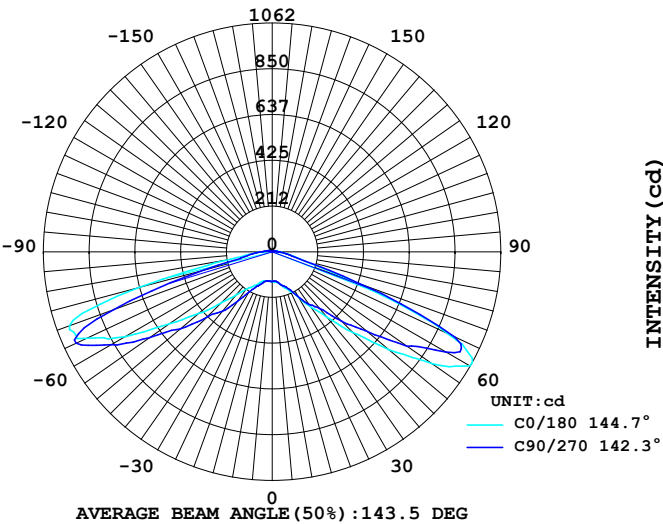
LUMINAIRE PHOTOMETRIC TEST REPORT

Report number:

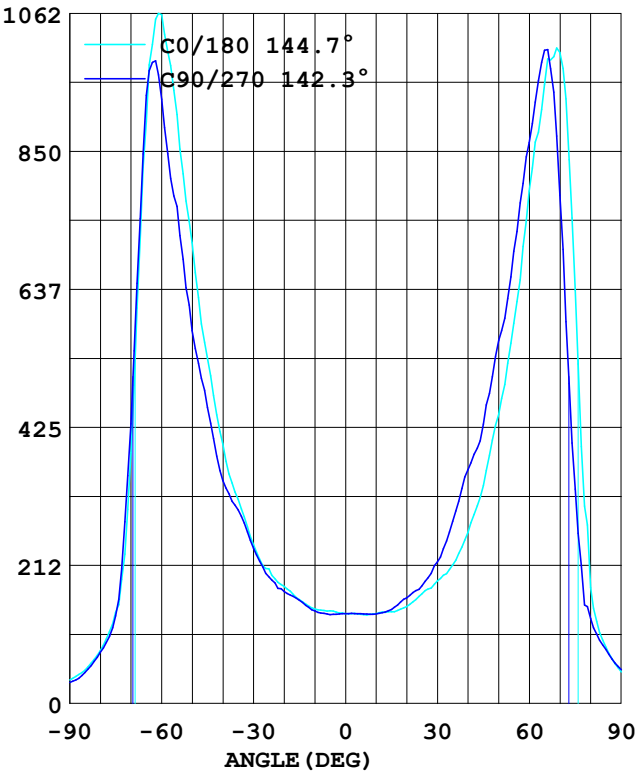
MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Liam		TYPE: IL-PO30-N0202C-TY5	WEIGHT:
SPECIFICATION: 2835LED 140deg	CCT (K) : 3000	DIMENSION:	SERIAL No.:

DATA OF LAMP		Imax (cd)	1062	S/MH (C0/180)	3.47
MODEL		EFFICIENCY (%)	100.0	S/MH (C90/270)	3.50
NOMINAL POWER(W)	22	TOTAL FLUX(lm)	2711.7	Voltage(V)	231.5
RATED VOLTAGE (V)	232	EFFICIENCY (lm/W)	125.1	Current(A)	0.113
NOMINAL FLUX(lm)	2711.7	η up (%)	2.8	Power(W)	21.68
LAMPS QUANTITY	1	η down (%)	97.2	Power Factor (PF)	0.824
TEST VOLTAGE (V)	231.5	Effective Flux(lm)	2711.7	EEL	0.109

LUMINOUS INTENSITY DISTRIBUTION



LUMINOUS INTENSITY DISTRIBUTION



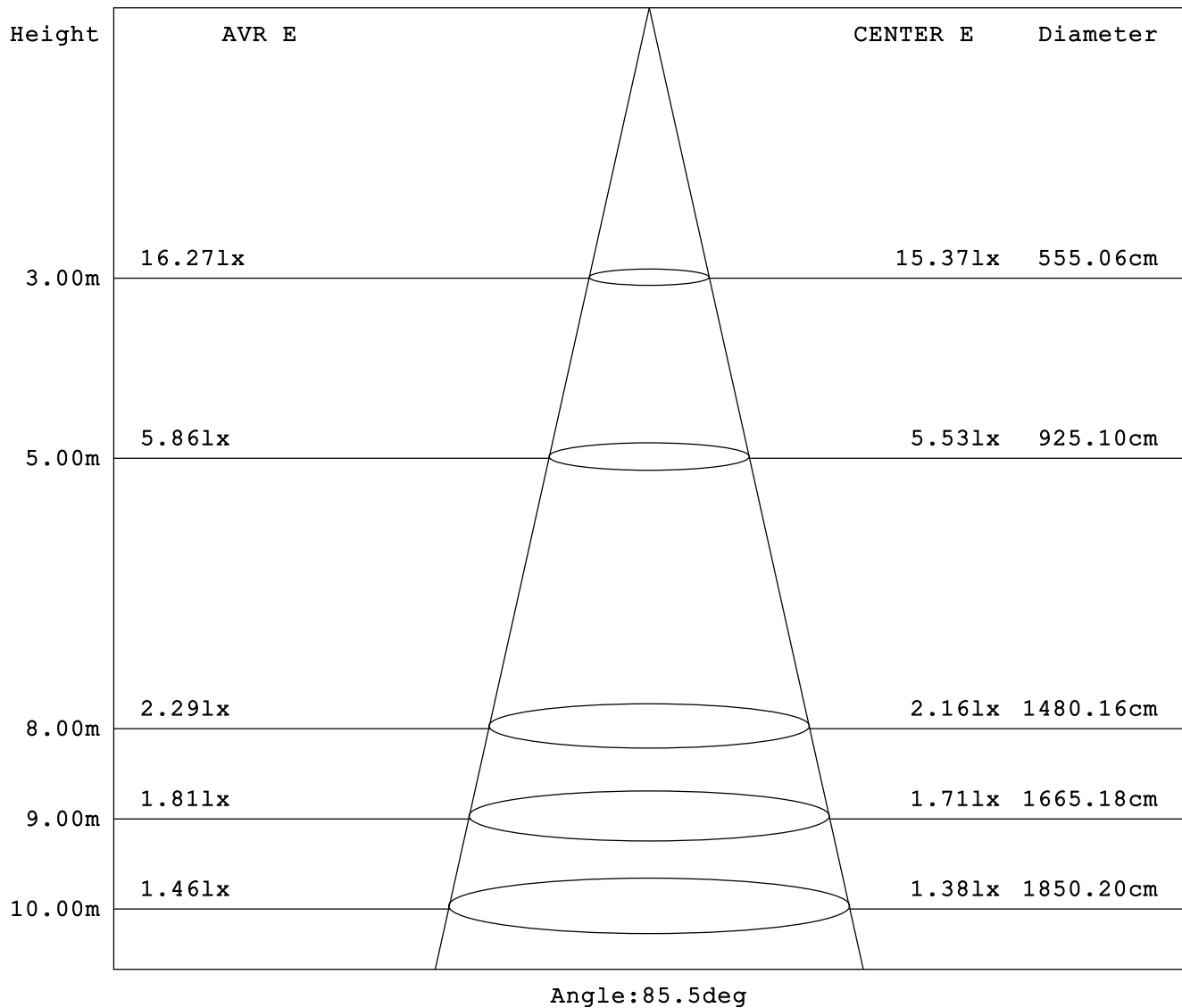
Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2024.11.14

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## AVERAGE AND CENTER E Figure

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Liam		TYPE: IL-PO30-N0202C-TY5	WEIGHT:
SPECIFICATION: 2835LED 140deg	CCT (K) : 3000	DIMENSION:	SERIAL No.:



Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2024.11.14

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

# ZONAL FLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Liam		TYPE: IL-PO30-N0202C-TY5	WEIGHT:
SPECIFICATION: 2835LED 140deg	CCT (K) : 3000	DIMENSION:	SERIAL No. :

γ	C0	C90	C180	C270					γ	Zone	total
5.0	142.5	136.8	137.4	138.3					0- 5	3.316	3.316
10.0	145.5	142.7	138.3	137.7					5- 10	9.975	13.29
15.0	160.0	158.8	141.1	144.4					10- 15	17.31	30.60
20.0	180.1	172.2	149.0	162.3					15- 20	26.17	56.78
25.0	207.1	194.6	168.9	180.8					20- 25	36.93	93.72
30.0	244.2	238.8	188.2	217.3					25- 30	51.46	145.1
35.0	314.0	297.7	213.0	279.9					30- 35	73.29	218.4
40.0	399.1	343.2	263.3	359.9					35- 40	102.4	320.8
45.0	531.4	455.5	335.3	429.6					40- 45	143.1	464.0
50.0	708.9	573.8	445.2	559.1					45- 50	203.3	667.4
55.0	906.1	765.0	585.0	695.8					50- 55	281.8	949.2
60.0	1060	930.0	788.6	862.7					55- 60	380.1	1329
65.0	895.2	935.8	952.3	1005					60- 65	461.6	1791
70.0	386.1	430.1	1002	782.3					65- 70	414.7	2206
75.0	140.1	134.6	635.9	329.9					70- 75	246.9	2453
80.0	80.88	78.61	178.2	130.8					75- 80	105.4	2558
85.0	51.22	47.56	86.27	82.81					80- 85	47.96	2606
90.0	36.44	32.34	48.62	51.87					85- 90	29.26	2636
95.0	27.75	23.33	31.85	37.35					90- 95	19.39	2655
100.0	21.76	17.72	23.16	28.34					95-100	14.31	2669
105.0	17.17	13.61	17.47	22.33					100-105	10.73	2680
110.0	12.88	10.21	13.68	18.02					105-110	8.214	2688
115.0	9.286	6.709	10.28	13.41					110-115	5.926	2694
120.0	7.089	4.907	7.089	9.914					115-120	4.077	2698
125.0	5.891	3.705	5.392	7.510					120-125	2.963	2701
130.0	5.691	3.404	3.894	5.808					125-130	2.214	2703
135.0	5.392	3.404	3.694	5.507					130-135	1.857	2705
140.0	4.793	3.204	3.794	5.307					135-140	1.632	2707
145.0	4.293	2.804	3.594	4.806					140-145	1.365	2708
150.0	3.794	2.403	3.295	4.306					145-150	1.081	2709
155.0	3.494	2.103	2.995	3.805					150-155	0.828	2710
160.0	3.195	2.002	2.696	3.404					155-160	0.619	2711
165.0	2.995	1.902	2.496	3.204					160-165	0.450	2711
170.0	2.795	1.702	2.396	2.904					165-170	0.303	2711
175.0	2.696	1.702	2.296	2.804					170-175	0.174	2712
180.0	2.596	1.802	2.496	2.603					175-180	0.056	2712
DEG	LUMINOUS INTENSITY:cd									UNIT:lm	

Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2024.11.14

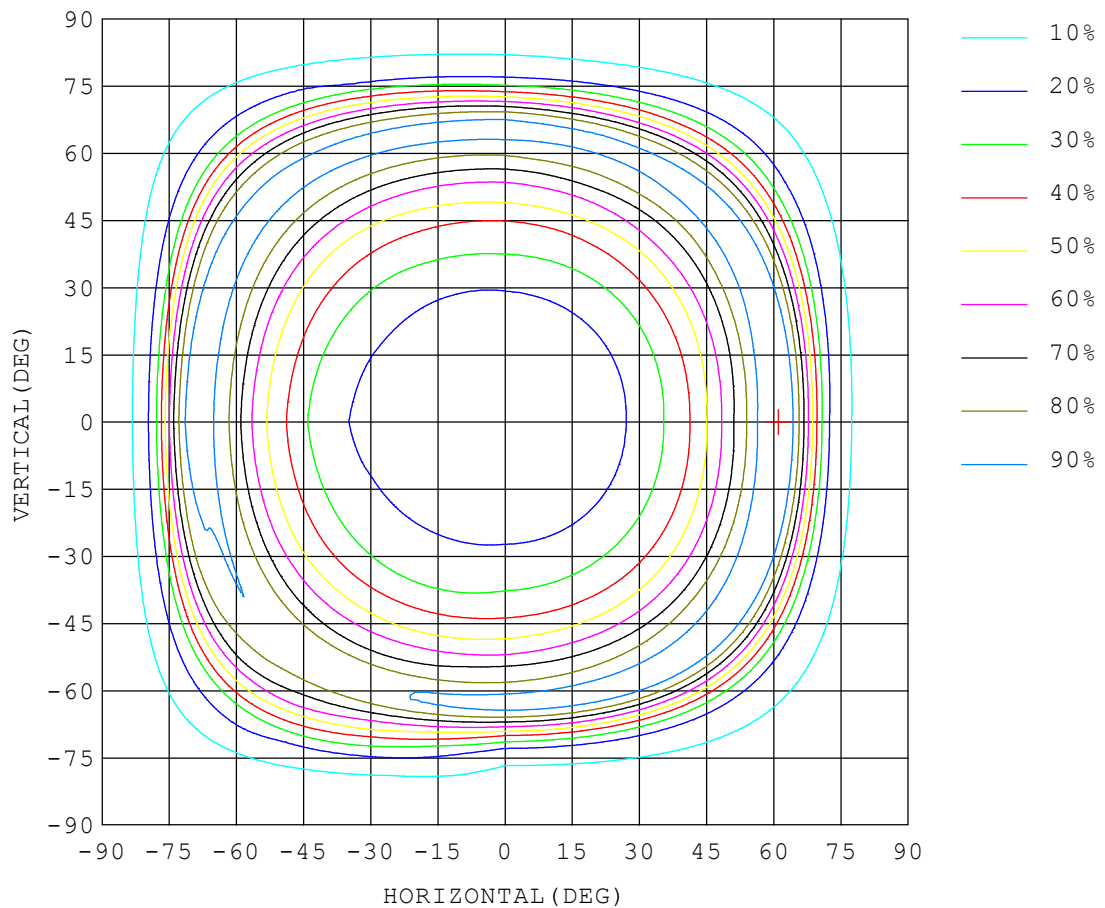
Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

## ISOCANDELA DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Liam		TYPE: IL-PO30-N0202C-TY5	WEIGHT:
SPECIFICATION: 2835LED 140deg	CCT (K) : 3000	DIMENSION:	SERIAL No. :

UNIT: cd



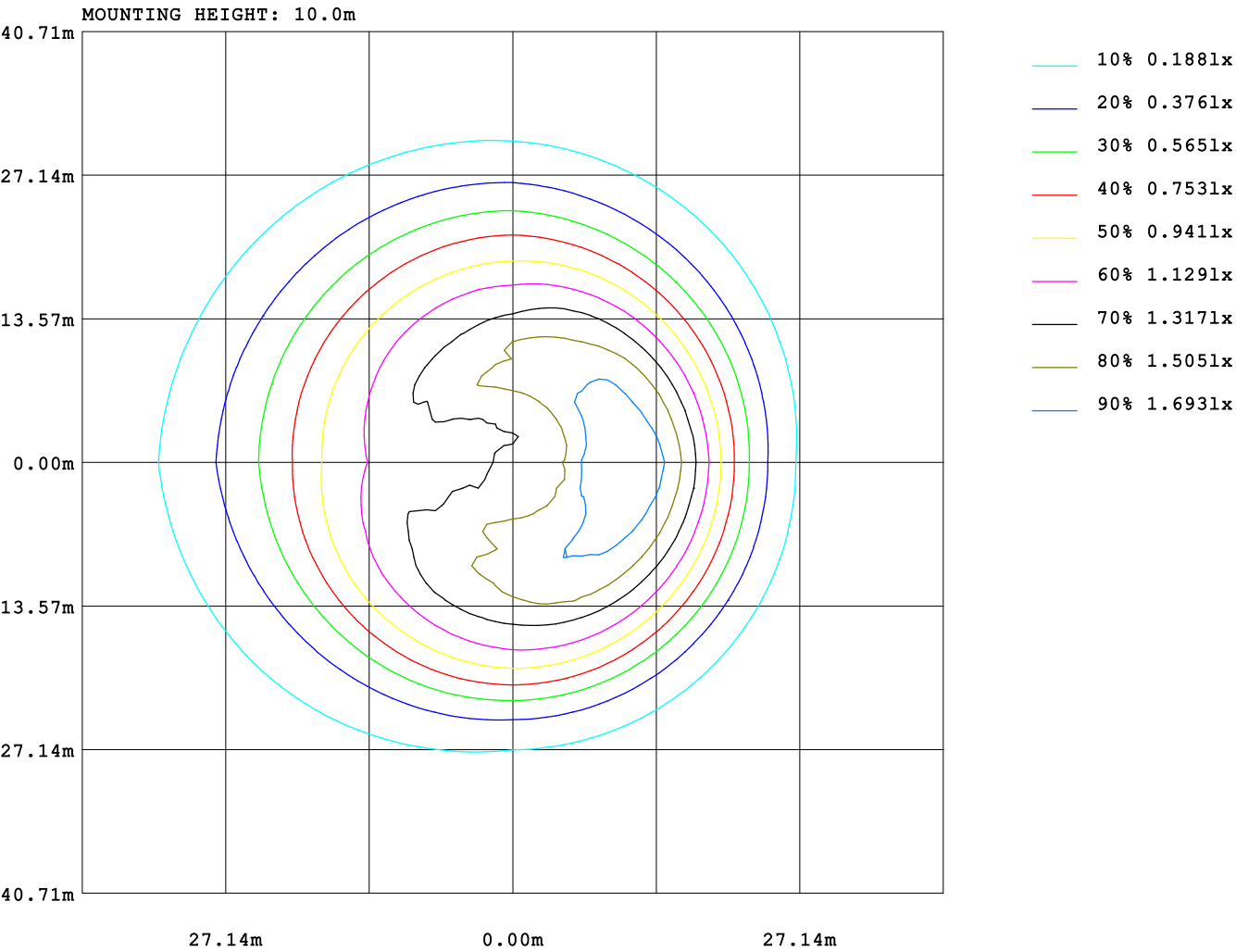
Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2024.11.14

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

ISOLUX DIAGRAM

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Liam		TYPE: IL-PO30-N0202C-TY5	WEIGHT:
SPECIFICATION: 2835LED 140deg	CCT (K) : 3000	DIMENSION:	SERIAL No. :



Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2024.11.14

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Report number:

MANUFACTURER: ILUMEN GMBH			
Address:			
NAME: Liam		TYPE: IL-PO30-N0202C-TY5	WEIGHT:
SPECIFICATION: 2835LED 140deg	CCT (K) : 3000	DIMENSION:	SERIAL No. :

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270
0.0	138	138	138	138
5.0	143	137	137	138
10.0	146	143	138	138
15.0	160	159	141	144
20.0	180	172	149	162
25.0	207	195	169	181
30.0	244	239	188	217
35.0	314	298	213	280
40.0	399	343	263	360
45.0	531	456	335	430
50.0	709	574	445	559
55.0	906	765	585	696
60.0	1060	930	789	863
65.0	895	936	952	1005
70.0	386	430	1002	782
75.0	140	135	636	330
80.0	80.8	78.6	178	131
85.0	51.2	47.5	86.2	82.8
90.0	36.4	32.3	48.6	51.8
95.0	27.7	23.3	31.8	37.3
100.0	21.7	17.7	23.1	28.3
105.0	17.1	13.6	17.4	22.3
110.0	12.8	10.2	13.6	18.0
115.0	9.28	6.70	10.2	13.4
120.0	7.08	4.90	7.08	9.91
125.0	5.89	3.70	5.39	7.51
130.0	5.69	3.40	3.89	5.80
135.0	5.39	3.40	3.69	5.50
140.0	4.79	3.20	3.79	5.30
145.0	4.29	2.80	3.59	4.80
150.0	3.79	2.40	3.29	4.30
155.0	3.49	2.10	2.99	3.80
160.0	3.19	2.00	2.69	3.40
165.0	2.99	1.90	2.49	3.20
170.0	2.79	1.70	2.39	2.90
175.0	2.69	1.70	2.29	2.80
180.0	2.59	1.80	2.49	2.60

Test System:  
Temperature:25.3DEG  
Operators:  
Test Date:2024.11.14

Test Set: 5.0deg/s C-Gamma (TYPE C)  
Humidity:65.0%  
Test Distance:10.000 m  
Remarks: