Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P640730

Luminaire Tested: ML5612LSFL4097FS1E - 691WB - 600LM - 5000K

Issue Date: 2/17/2023

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P640730
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-36)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	2/17/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	HALO
Catalog Number:	ML5612LSFL4097FS1E - 691WB - 600LM - 5000K
Description:	ML56 RR, 40D TIR OPTIC, 6" DEADFRONT TRIM
Light Source:	(1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	1107.4 lumens
Efficiency:	N/A
Efficacy:	107.5 lumens/watt
Spacing Criteria (0/90/45):	0.64 / 0.64 / 0.69
Luminous Opening:	Circular (Dia: 0.5' x H: 0')
CIE Type:	Direct

Input Watts (W):	10.3
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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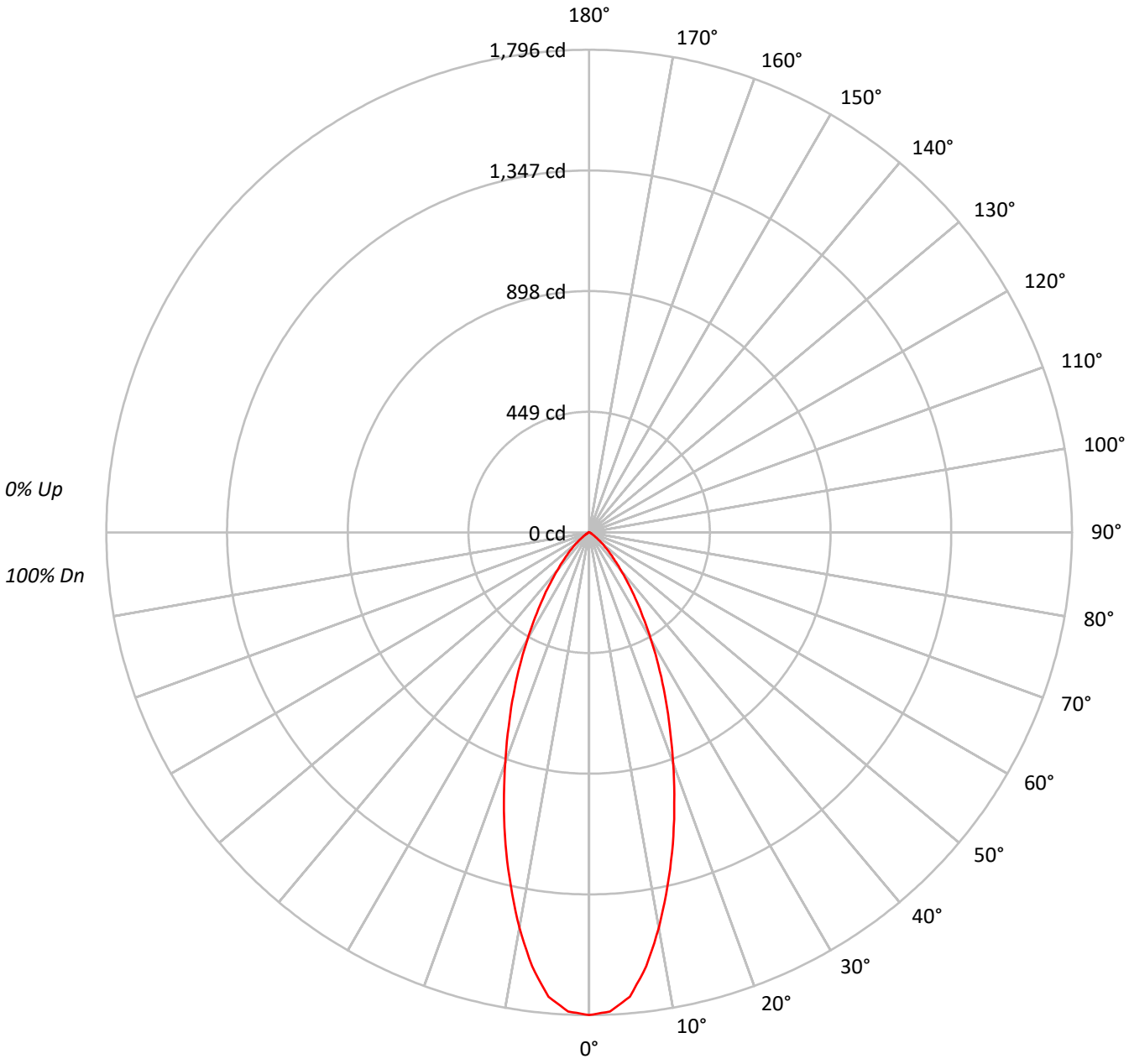
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	91	87	101	95	90	87	92	89	85	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	67
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	63
8	80	71	65	61	79	70	65	61	69	64	61	68	64	61	67	63	60	59
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98452
5°	95427
10°	83131
15°	68190
20°	53234
25°	40285
30°	29061
35°	19990
40°	13074
45°	8544
50°	5032
55°	2676
60°	1480
65°	882
70°	465
75°	212
80°	316
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 8544 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	14.2
10°-20°	332.1	30.0
20°-30°	305.2	27.6
30°-40°	189.4	17.1
40°-50°	86.7	7.8
50°-60°	27.3	2.5
60°-70°	7.0	0.6
70°-80°	1.5	0.1
80°-90°	0.7	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	794.8	71.8
0°-40°	984.3	88.9
0°-60°	1098.2	99.2
0°-90°	1107.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1107.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1796	
5°	1734	157
15°	1202	332
25°	666	305
35°	299	189
45°	110	87
55°	28	27
65°	7	7
75°	1	2
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1795.9
2.5°	1784.3
5°	1734.1
7.5°	1627.8
10°	1493.4
12.5°	1347.4
15°	1201.5
17.5°	1053.6
20°	912.5
22.5°	782.0
25°	666.0
27.5°	556.8
30°	459.1
32.5°	372.1
35°	298.7
37.5°	235.9
40°	182.7
42.5°	142.1
45°	110.2
47.5°	81.2
50°	59.0
52.5°	40.6
55°	28.0
57.5°	18.4
60°	13.5
62.5°	9.7
65°	6.8
67.5°	3.9
70°	2.9
72.5°	1.9
75°	1.0
77.5°	1.0
80°	1.0
82.5°	1.0
85°	1.0
87.5°	0.0
90°	0.0

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Report Generated By 670245859 / DESKTOP-T8S5UU9

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0°-180°

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(END OF REPORT)