

Signify Classified - Internal
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: P640893

Luminaire Tested: ML5612LSNFL2597FS1E - 591WB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 591WB - 600LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

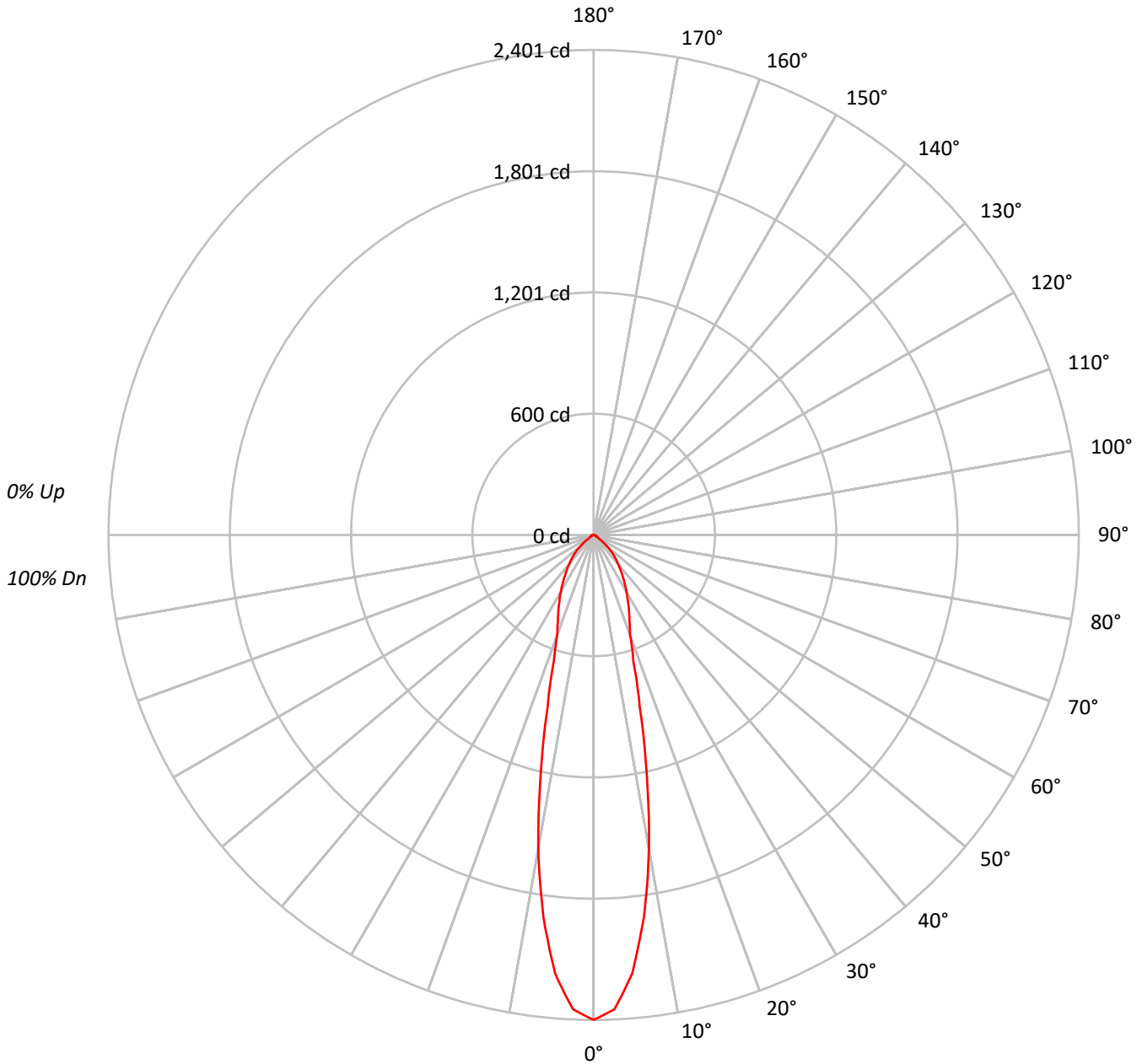
Lumens per Lamp: N/A
Luminaire Lumens: 954.3 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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				100															
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93				93															
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86				86															
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80				80															
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75				75															
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70				70															
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66				66															
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62				62															
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58				58															
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56				56															
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53				53															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	189521
5°	172796
10°	126450
15°	71992
20°	44322
25°	36017
30°	29661
35°	24083
40°	19456
45°	15551
50°	10156
55°	4459
60°	2842
65°	2522
70°	2285
75°	2196
80°	2455
85°	2446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15551 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.5	19.7
10°-20°	253.6	26.6
20°-30°	190.4	20.0
30°-40°	157.0	16.5
40°-50°	104.7	11.0
50°-60°	35.5	3.7
60°-70°	13.7	1.4
70°-80°	7.7	0.8
80°-90°	3.2	0.3
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°	632.5	66.3
0°-40°	789.5	82.7
0°-60°	929.7	97.4
0°-90°	954.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	954.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2401	
5°	2181	188
15°	881	254
25°	414	190
35°	250	157
45°	139	105
55°	32	36
65°	14	14
75°	7	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2400.8
2.5°	2351.4
5°	2180.6
7.5°	1906.4
10°	1577.5
12.5°	1210.7
15°	880.9
17.5°	653.5
20°	527.6
22.5°	462.0
25°	413.5
27.5°	366.7
30°	325.4
32.5°	285.8
35°	249.9
37.5°	217.5
40°	188.8
42.5°	162.7
45°	139.3
47.5°	108.8
50°	82.7
52.5°	56.6
55°	32.4
57.5°	21.6
60°	18.0
62.5°	16.2
65°	13.5
67.5°	11.7
70°	9.9
72.5°	8.1
75°	7.2
77.5°	6.3
80°	5.4
82.5°	4.5
85°	2.7
87.5°	1.8
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)