

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: P641051

Luminaire Tested: ML5612LSNFL2597FS1E - 596WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 596WB - 1200LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

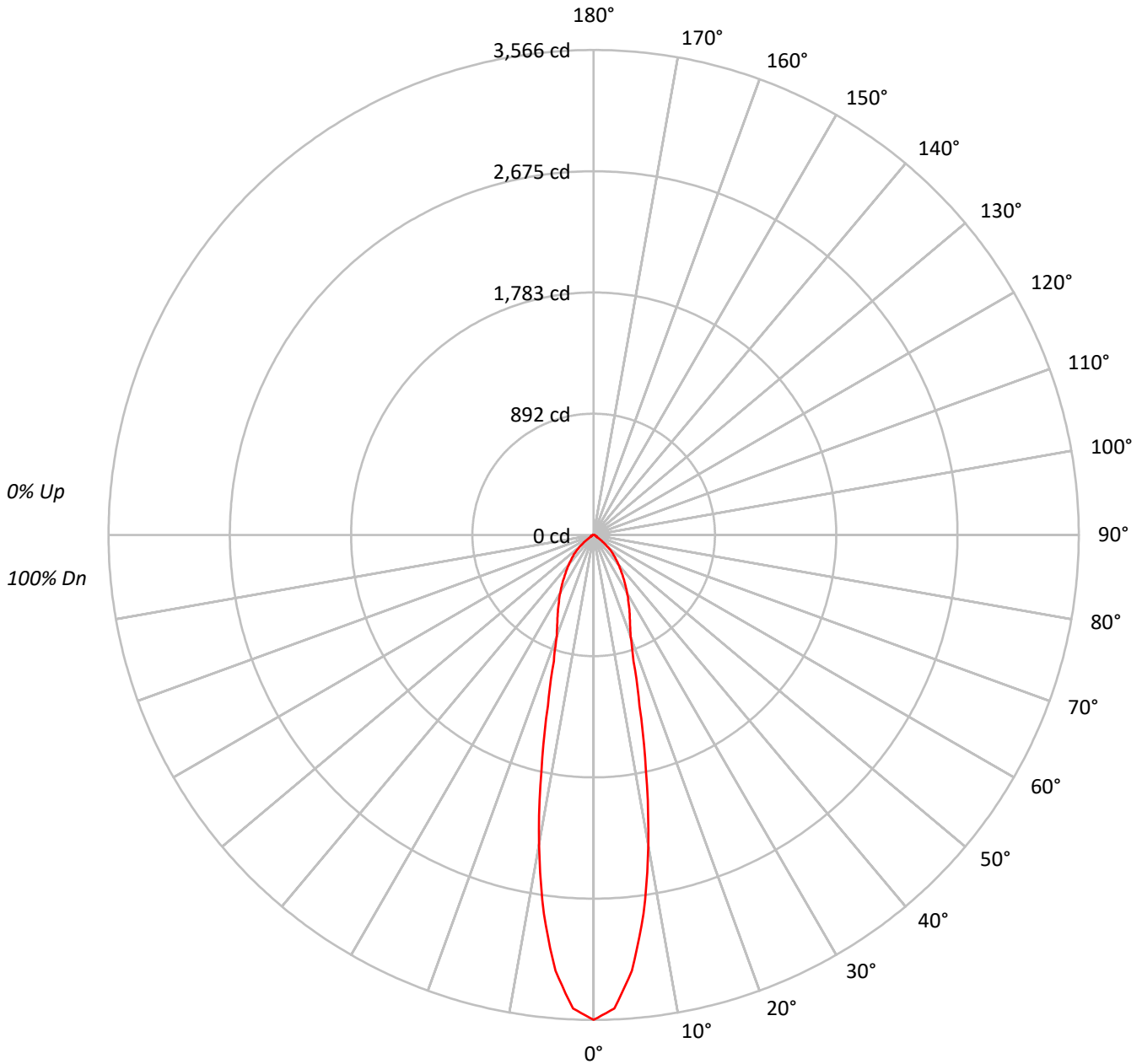
Lumens per Lamp: N/A
Luminaire Lumens: 1422.4 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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			
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	113	110	108	105	111	108	106	104	104	102	101		100	99	98		97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92	90	88	86
3	102	95	90	86	100	94	89	86	91	87	84		89	86	83		87	84	82	80
4	97	89	84	79	95	88	83	79	86	81	78		84	80	77		82	79	76	75
5	92	84	78	73	90	83	77	73	81	76	72		79	75	72		78	74	71	70
6	88	79	73	69	86	78	72	68	76	71	68		75	71	67		74	70	67	65
7	84	74	68	64	82	74	68	64	72	67	64		71	67	63		70	66	63	62
8	80	71	65	61	79	70	64	60	69	64	60		68	63	60		67	63	60	58
9	76	67	61	57	75	67	61	57	66	61	57		65	60	57		64	60	57	55
10	73	64	58	54	72	63	58	54	63	58	54		62	57	54		61	57	54	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	281472
5°	254915
10°	185640
15°	106350
20°	66475
25°	54317
30°	44793
35°	36283
40°	29132
45°	23154
50°	15572
55°	7088
60°	3963
65°	3698
70°	3047
75°	2806
80°	3000
85°	3623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23154 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.0	19.5
10°-20°	374.7	26.3
20°-30°	287.0	20.2
30°-40°	236.4	16.6
40°-50°	158.3	11.1
50°-60°	54.9	3.9
60°-70°	19.1	1.3
70°-80°	10.3	0.7
80°-90°	3.8	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°	939.6	66.1
0°-40°	1176.1	82.7
0°-60°	1389.2	97.7
0°-90°	1422.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1422.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3566	
5°	3217	278
15°	1301	375
25°	624	287
35°	376	236
45°	207	158
55°	52	55
65°	20	19
75°	9	10
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3565.6
2.5°	3485.1
5°	3216.9
7.5°	2810.0
10°	2315.9
12.5°	1775.6
15°	1301.3
17.5°	973.6
20°	791.3
22.5°	696.2
25°	623.6
27.5°	553.5
30°	491.4
32.5°	432.0
35°	376.5
37.5°	326.3
40°	282.7
42.5°	243.1
45°	207.4
47.5°	170.4
50°	126.8
52.5°	89.8
55°	51.5
57.5°	31.7
60°	25.1
62.5°	22.5
65°	19.8
67.5°	15.9
70°	13.2
72.5°	10.6
75°	9.2
77.5°	9.2
80°	6.6
82.5°	5.3
85°	4.0
87.5°	1.3
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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