

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: P640935

Luminaire Tested: ML5612LSNFL2597FS1E - 592W - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 592W - 1200LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

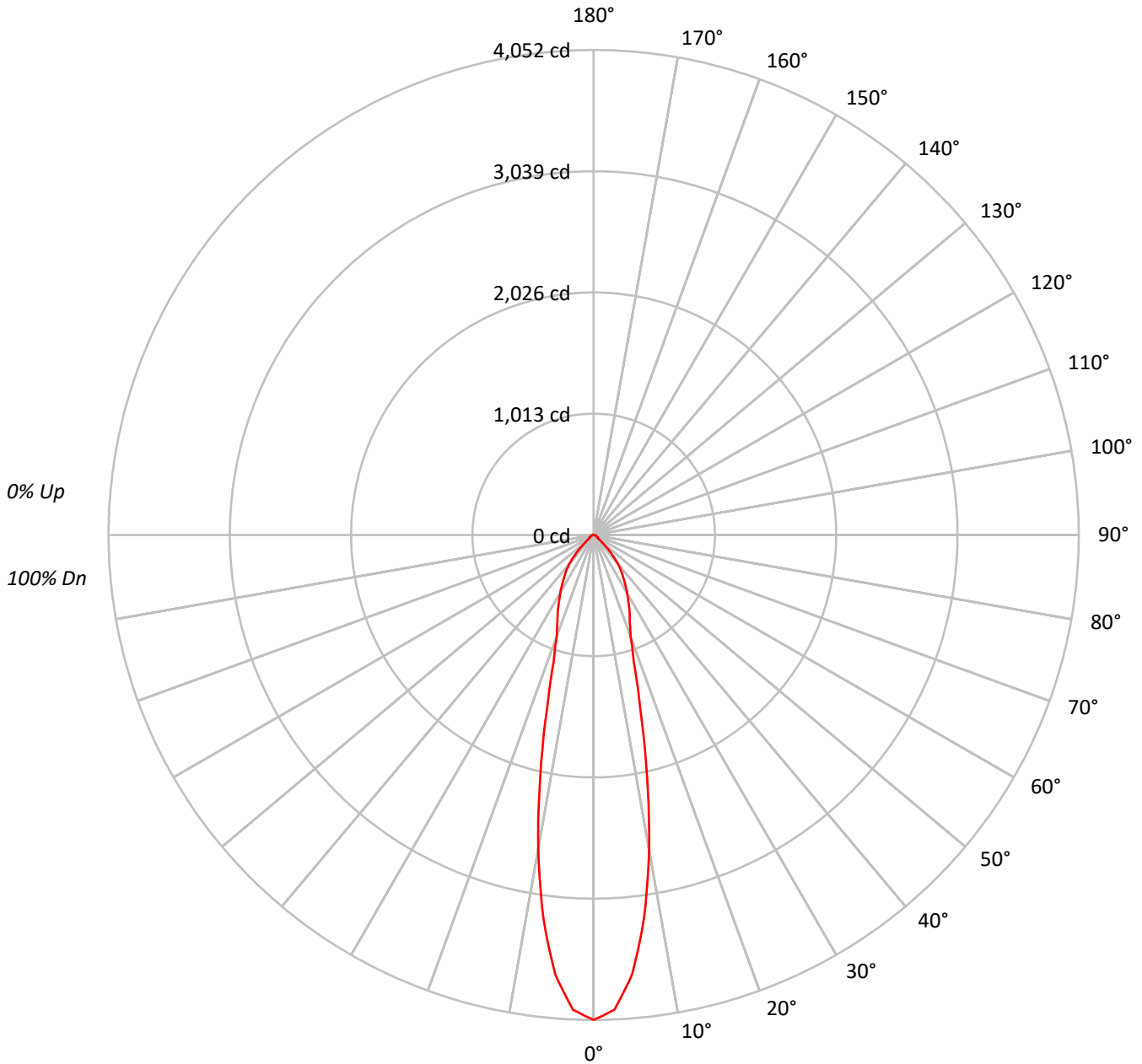
Lumens per Lamp: N/A
Luminaire Lumens: 1569.5 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): 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																			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81																			
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63																			
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60																			
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57																			
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	319876
5°	292064
10°	213815
15°	122744
20°	75573
25°	61746
30°	50654
35°	41246
40°	32502
45°	20117
50°	7565
55°	5794
60°	5447
65°	5043
70°	4847
75°	5033
80°	4773
85°	4076

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20117 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.7	20.3
10°-20°	431.1	27.5
20°-30°	325.7	20.8
30°-40°	268.4	17.1
40°-50°	137.3	8.7
50°-60°	39.2	2.5
60°-70°	26.9	1.7
70°-80°	17.2	1.1
80°-90°	5.1	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°	1075.5	68.5
0°-40°	1343.8	85.6
0°-60°	1520.3	96.9
0°-90°	1569.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1569.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4052	
5°	3686	319
15°	1502	431
25°	709	326
35°	428	268
45°	180	137
55°	42	39
65°	27	27
75°	16	17
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4052.1
2.5°	3971.0
5°	3685.7
7.5°	3226.1
10°	2667.4
12.5°	2054.6
15°	1501.9
17.5°	1112.9
20°	899.6
22.5°	790.0
25°	708.9
27.5°	627.8
30°	555.7
32.5°	489.6
35°	428.0
37.5°	374.0
40°	315.4
42.5°	243.3
45°	180.2
47.5°	111.1
50°	61.6
52.5°	48.1
55°	42.1
57.5°	37.5
60°	34.5
62.5°	30.0
65°	27.0
67.5°	24.0
70°	21.0
72.5°	19.5
75°	16.5
77.5°	13.5
80°	10.5
82.5°	7.5
85°	4.5
87.5°	1.5
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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(END OF REPORT)