

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: P640995

Luminaire Tested: ML5612LSNFL2597FS1E - 593WB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640995
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 593WB - 1200LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

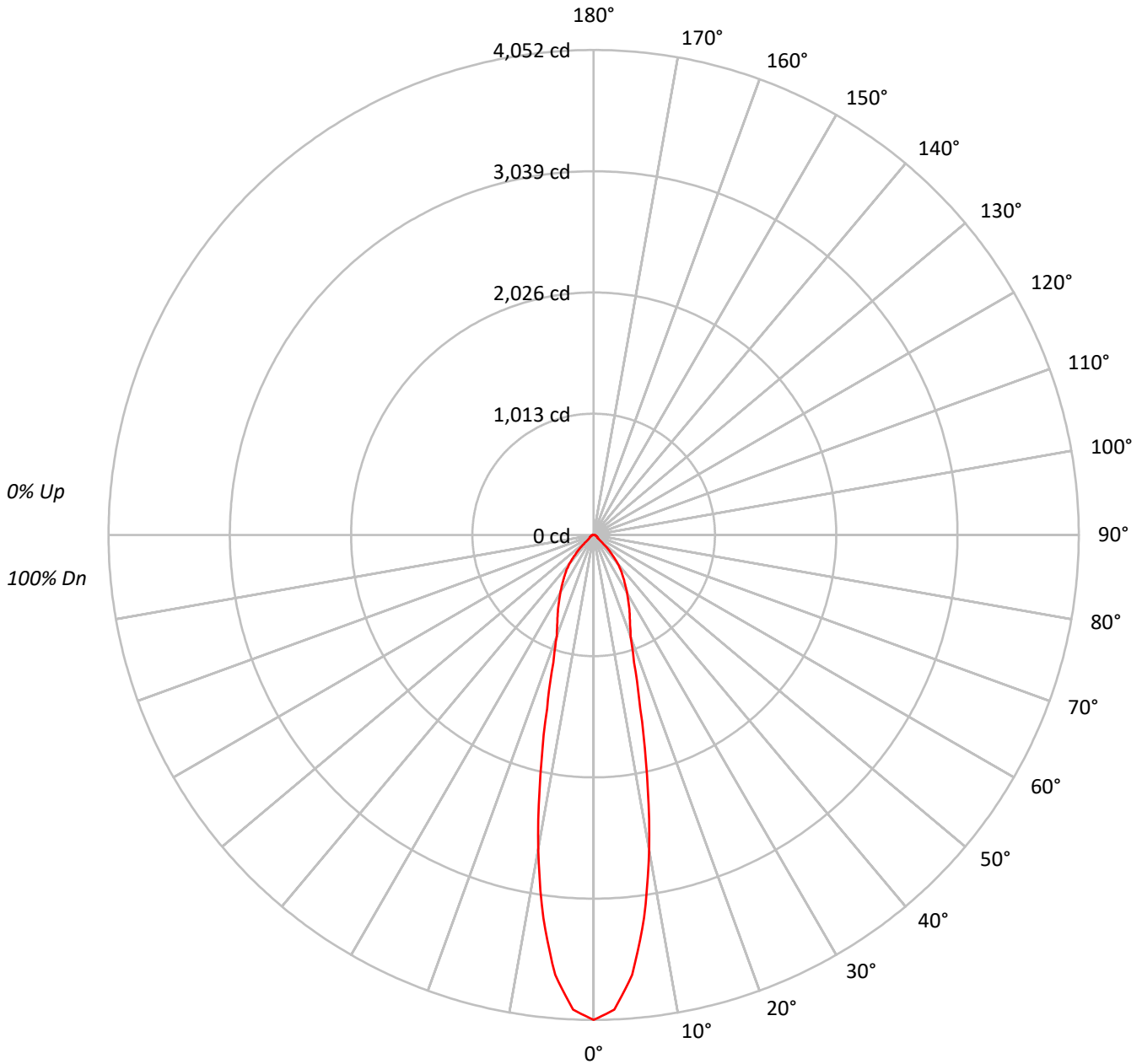
Lumens per Lamp: N/A
Luminaire Lumens: 1568.1 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	319876
5°	292278
10°	214088
15°	122834
20°	75758
25°	61659
30°	50690
35°	41285
40°	32523
45°	19972
50°	7381
55°	5588
60°	5226
65°	4782
70°	4847
75°	5033
80°	4773
85°	5434

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19972 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.8	20.3
10°-20°	431.8	27.5
20°-30°	325.9	20.8
30°-40°	268.3	17.1
40°-50°	136.6	8.7
50°-60°	38.2	2.4
60°-70°	26.0	1.7
70°-80°	16.8	1.1
80°-90°	5.5	0.4
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°	1076.5	68.7
0°-40°	1344.9	85.8
0°-60°	1519.7	96.9
0°-90°	1568.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1568.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4052	
5°	3688	319
15°	1503	432
25°	708	326
35°	428	268
45°	179	137
55°	41	38
65°	26	26
75°	16	17
85°	6	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4052.1
2.5°	3969.4
5°	3688.4
7.5°	3227.0
10°	2670.8
12.5°	2053.1
15°	1503.0
17.5°	1119.7
20°	901.8
22.5°	790.6
25°	707.9
27.5°	628.3
30°	556.1
32.5°	488.5
35°	428.4
37.5°	374.2
40°	315.6
42.5°	243.5
45°	178.9
47.5°	109.7
50°	60.1
52.5°	46.6
55°	40.6
57.5°	37.6
60°	33.1
62.5°	30.1
65°	25.6
67.5°	22.5
70°	21.0
72.5°	18.0
75°	16.5
77.5°	13.5
80°	10.5
82.5°	7.5
85°	6.0
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)