

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: P640992

Luminaire Tested: ML5612LSNFL2597FS1E - 593WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640992
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 - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

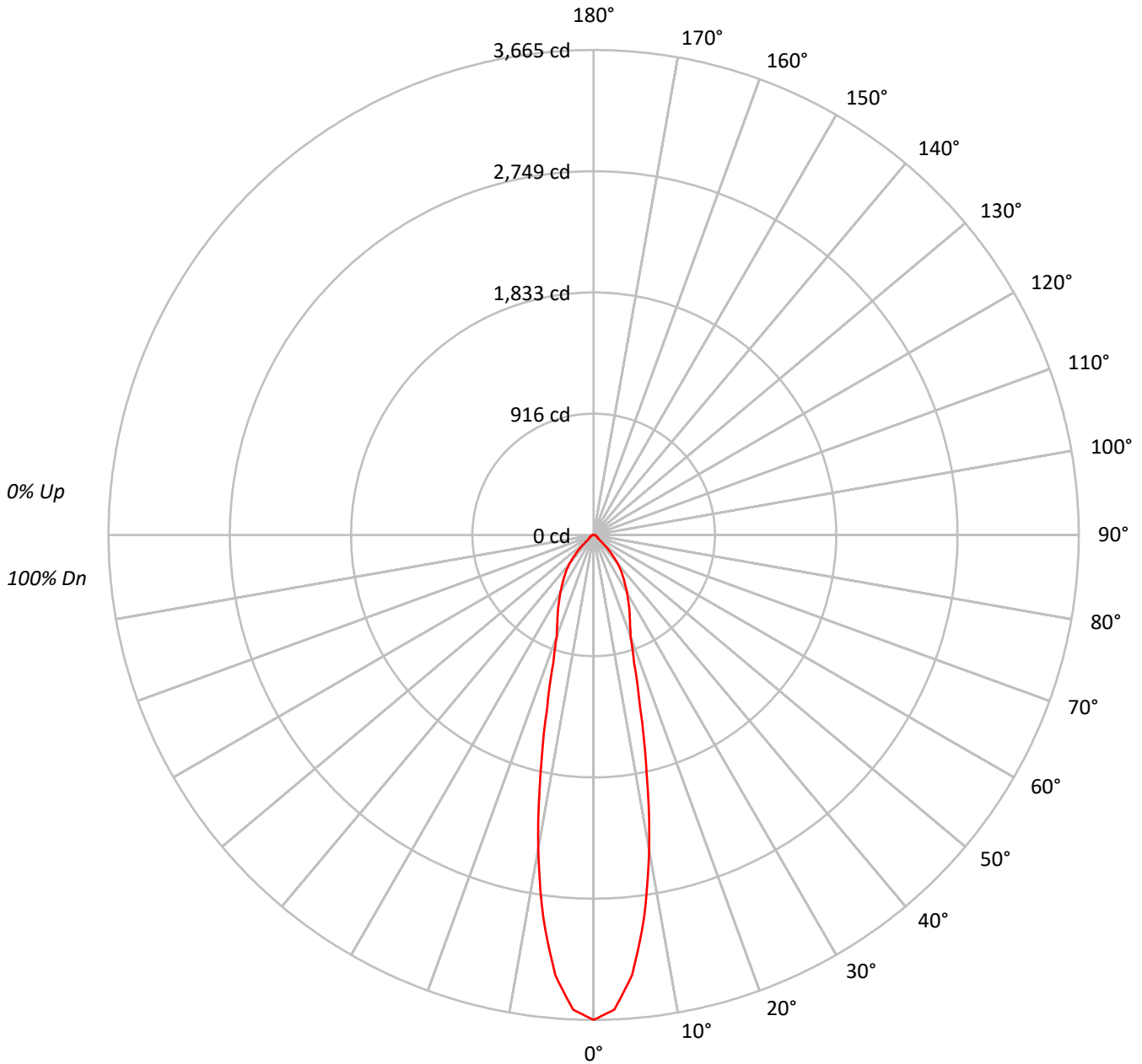
Lumens per Lamp: N/A
Luminaire Lumens: 1418.3 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	289311
5°	264345
10°	193631
15°	111098
20°	68516
25°	55771
30°	45850
35°	37333
40°	29421
45°	18063
50°	6681
55°	5051
60°	4721
65°	4315
70°	4385
75°	4575
80°	4319
85°	4891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18063 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.3	20.3
10°-20°	390.6	27.5
20°-30°	294.7	20.8
30°-40°	242.7	17.1
40°-50°	123.6	8.7
50°-60°	34.6	2.4
60°-70°	23.5	1.7
70°-80°	15.2	1.1
80°-90°	5.0	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°	973.6	68.7
0°-40°	1216.3	85.8
0°-60°	1374.5	96.9
0°-90°	1418.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1418.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3665	
5°	3336	288
15°	1359	391
25°	640	295
35°	387	243
45°	162	124
55°	37	35
65°	23	24
75°	15	15
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3664.9
2.5°	3590.1
5°	3335.9
7.5°	2918.6
10°	2415.6
12.5°	1856.9
15°	1359.4
17.5°	1012.7
20°	815.6
22.5°	715.0
25°	640.3
27.5°	568.2
30°	503.0
32.5°	441.8
35°	387.4
37.5°	338.5
40°	285.5
42.5°	220.2
45°	161.8
47.5°	99.2
50°	54.4
52.5°	42.1
55°	36.7
57.5°	34.0
60°	29.9
62.5°	27.2
65°	23.1
67.5°	20.4
70°	19.0
72.5°	16.3
75°	15.0
77.5°	12.2
80°	9.5
82.5°	6.8
85°	5.4
87.5°	1.4
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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