

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: P641232

Luminaire Tested: ML5612LSVWFL7597FS1E - 591WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 591WB - 1200LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1478.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

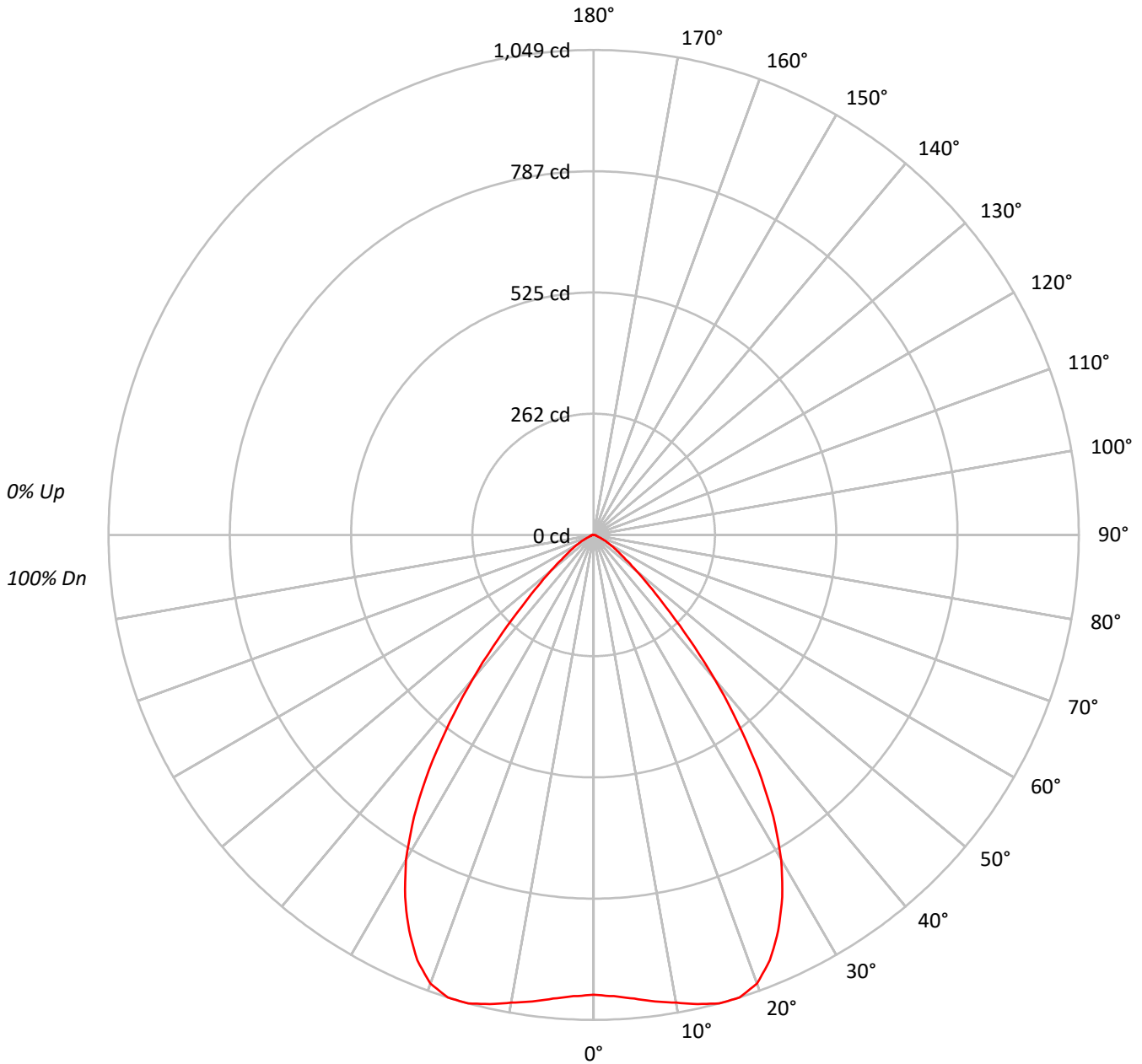
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			
1	113	110	107	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92			
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54524
5°	55409
10°	57186
15°	59535
20°	60246
25°	57124
30°	51350
35°	41559
40°	29076
45°	17064
50°	10200
55°	6365
60°	4320
65°	2465
70°	1314
75°	1144
80°	1294
85°	1698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17064 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	6.5
10°-20°	295.5	20.0
20°-30°	430.4	29.1
30°-40°	381.9	25.8
40°-50°	180.7	12.2
50°-60°	63.2	4.3
60°-70°	20.5	1.4
70°-80°	6.3	0.4
80°-90°	2.8	0.2
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°	822.7	55.7
0°-40°	1204.5	81.5
0°-60°	1448.5	98.0
0°-90°	1478.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1478.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	995	
5°	1007	97
15°	1049	295
25°	944	430
35°	621	382
45°	220	181
55°	67	63
65°	19	21
75°	5	6
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	994.6
2.5°	998.7
5°	1006.9
7.5°	1017.7
10°	1027.3
12.5°	1039.5
15°	1049.0
17.5°	1049.0
20°	1032.7
22.5°	996.0
25°	944.4
27.5°	883.2
30°	811.2
32.5°	722.9
35°	621.0
37.5°	510.9
40°	406.3
42.5°	304.4
45°	220.1
47.5°	161.7
50°	119.6
52.5°	87.0
55°	66.6
57.5°	51.6
60°	39.4
62.5°	28.5
65°	19.0
67.5°	12.2
70°	8.2
72.5°	6.8
75°	5.4
77.5°	5.4
80°	4.1
82.5°	4.1
85°	2.7
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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