

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: P643053

Luminaire Tested: ML5615LSVWFL759FS1E - 591WB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643053
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: ML5615LSVWFL759FS1E - 591WB - 1500LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

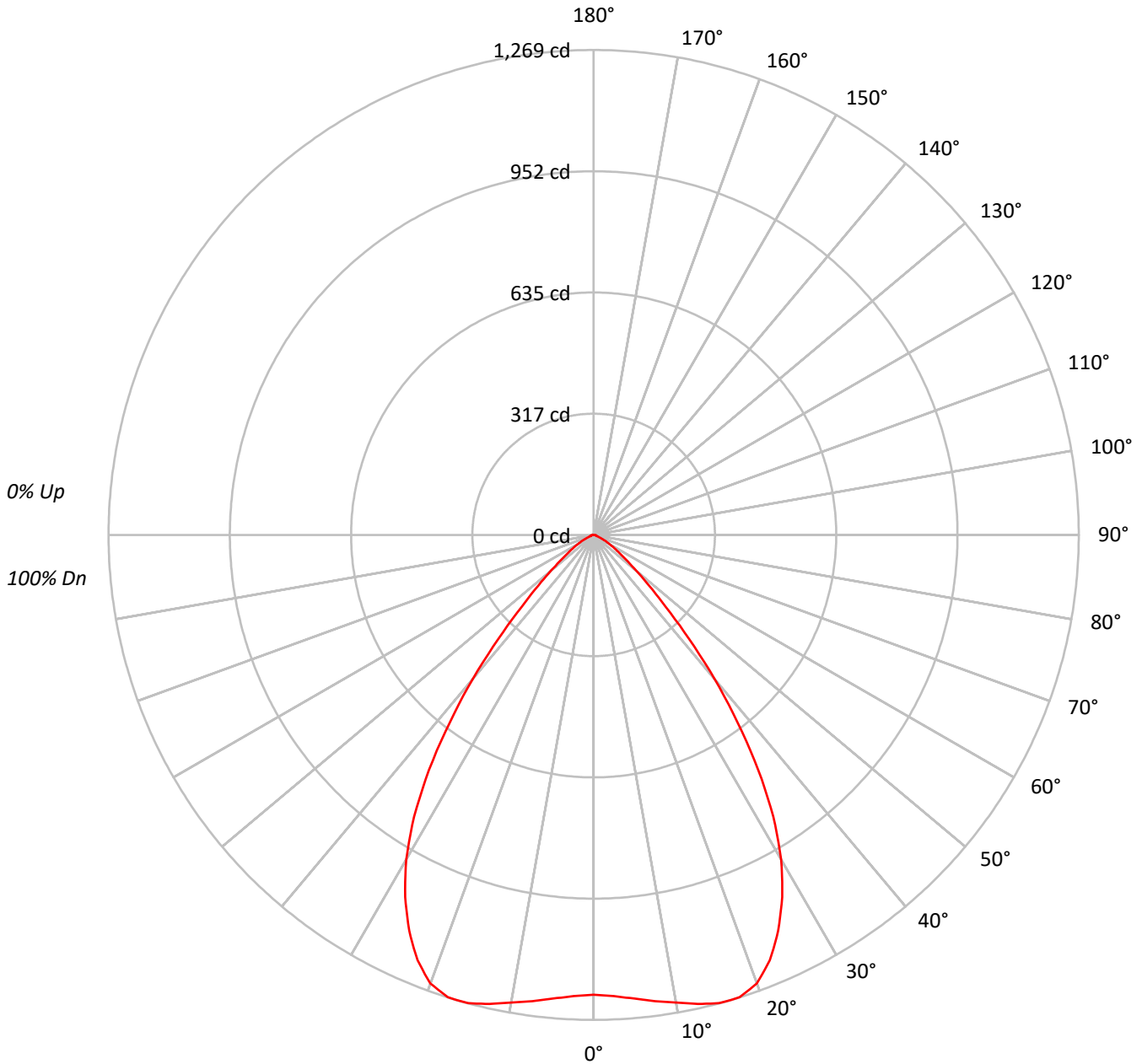
Lumens per Lamp: N/A
Luminaire Lumens: 1787.4 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
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	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°	65943
5°	67010
10°	69154
15°	71998
20°	72859
25°	69083
30°	62098
35°	50259
40°	35159
45°	20638
50°	12332
55°	7694
60°	5230
65°	2983
70°	1587
75°	1398
80°	1547
85°	2076

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20638 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	6.5
10°-20°	357.4	20.0
20°-30°	520.5	29.1
30°-40°	461.8	25.8
40°-50°	218.6	12.2
50°-60°	76.4	4.3
60°-70°	24.8	1.4
70°-80°	7.6	0.4
80°-90°	3.3	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°	994.9	55.7
0°-40°	1456.7	81.5
0°-60°	1751.7	98.0
0°-90°	1787.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1787.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1203	
5°	1218	117
15°	1269	357
25°	1142	521
35°	751	462
45°	266	219
55°	80	76
65°	23	25
75°	7	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1202.9
2.5°	1207.8
5°	1217.7
7.5°	1230.8
10°	1242.3
12.5°	1257.1
15°	1268.6
17.5°	1268.6
20°	1248.9
22.5°	1204.5
25°	1142.1
27.5°	1068.1
30°	981.0
32.5°	874.2
35°	751.0
37.5°	617.9
40°	491.3
42.5°	368.1
45°	266.2
47.5°	195.5
50°	144.6
52.5°	105.2
55°	80.5
57.5°	62.4
60°	47.7
62.5°	34.5
65°	23.0
67.5°	14.8
70°	9.9
72.5°	8.2
75°	6.6
77.5°	6.6
80°	4.9
82.5°	4.9
85°	3.3
87.5°	1.6
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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