

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: P643232

Luminaire Tested: ML5615LSVWFL759FS1E - 691WB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 691WB - 1500LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1748.1 lumens
Efficiency: N/A
Efficacy: 102.2 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

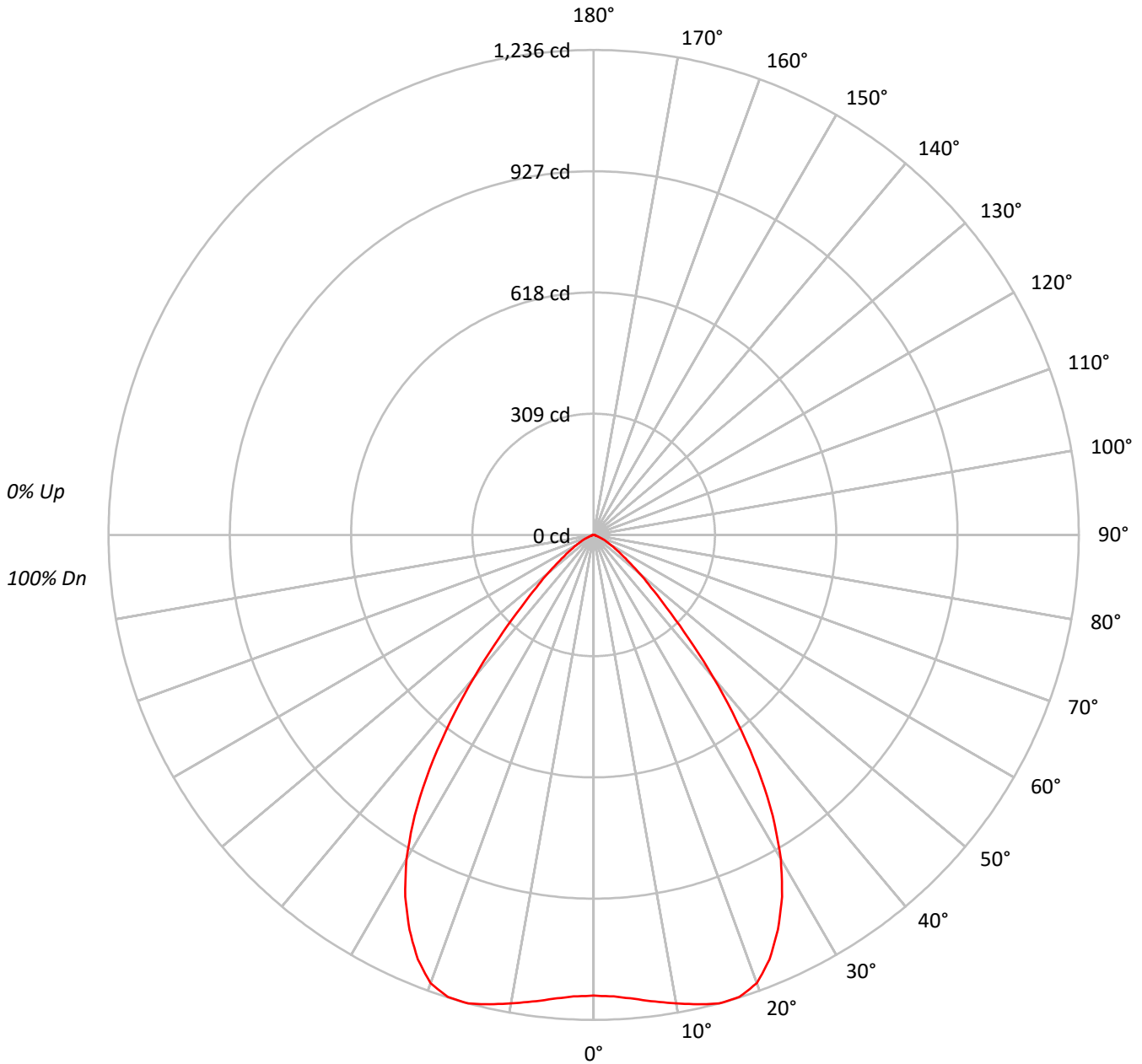
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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				100															
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92				92															
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83				83															
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76				76															
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69				69															
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63				63															
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58				58															
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53				53															
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49				49															
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45				45															
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42				42															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	64359
5°	65309
10°	67489
15°	70171
20°	70916
25°	67147
30°	60345
35°	48814
40°	33885
45°	20335
50°	12963
55°	8105
60°	5438
65°	3528
70°	1795
75°	1017
80°	1010
85°	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20335 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	6.5
10°-20°	348.1	19.9
20°-30°	506.2	29.0
30°-40°	448.2	25.6
40°-50°	215.4	12.3
50°-60°	80.2	4.6
60°-70°	27.5	1.6
70°-80°	6.1	0.3
80°-90°	2.2	0.1
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°	968.4	55.4
0°-40°	1416.6	81.0
0°-60°	1712.3	98.0
0°-90°	1748.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1748.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1174	
5°	1187	114
15°	1236	348
25°	1110	506
35°	729	448
45°	262	215
55°	85	80
65°	27	28
75°	5	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1174.0
2.5°	1177.2
5°	1186.8
7.5°	1199.6
10°	1212.4
12.5°	1225.2
15°	1236.4
17.5°	1234.8
20°	1215.6
22.5°	1170.8
25°	1110.1
27.5°	1039.7
30°	953.3
32.5°	849.3
35°	729.4
37.5°	599.8
40°	473.5
42.5°	356.7
45°	262.3
47.5°	198.3
50°	152.0
52.5°	112.0
55°	84.8
57.5°	64.0
60°	49.6
62.5°	38.4
65°	27.2
67.5°	16.0
70°	11.2
72.5°	6.4
75°	4.8
77.5°	4.8
80°	3.2
82.5°	3.2
85°	1.6
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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(END OF REPORT)