

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: P643145

Luminaire Tested: ML5615LSVWFL759FS1E - 593TBZB - 1500LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 593TBZB - 1500LM - 5000K
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

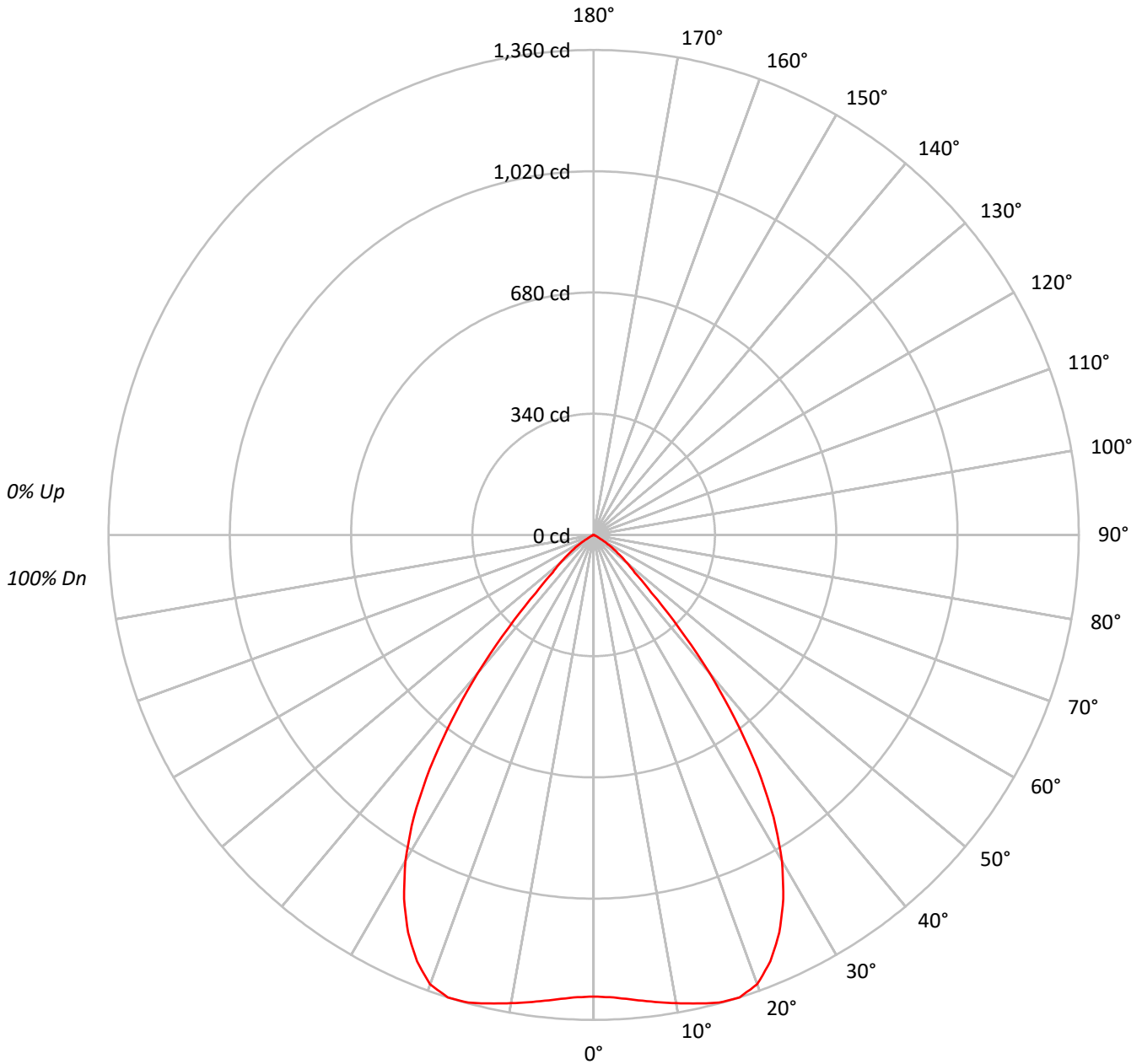
Lumens per Lamp: N/A
Luminaire Lumens: 1824.9 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																			
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	78																			
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73	71																			
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65																			
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60																			
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55																			
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51																			
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49	47																			
10	67	56	50	46	66	56	50	46	55	49	46	54	49	45	53	49	45	44																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	102189
5°	103697
10°	106884
15°	110992
20°	112612
25°	107205
30°	96230
35°	77201
40°	51937
45°	25666
50°	14983
55°	9001
60°	3079
65°	654
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25666 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	6.9
10°-20°	383.0	21.0
20°-30°	560.2	30.7
30°-40°	491.1	26.9
40°-50°	199.3	10.9
50°-60°	59.4	3.3
60°-70°	6.2	0.3
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1068.9	58.6
0°-40°	1560.0	85.5
0°-60°	1818.7	99.7
0°-90°	1824.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1824.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1294	
5°	1309	126
15°	1358	383
25°	1231	560
35°	801	491
45°	230	199
55°	65	59
65°	4	6
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1294.5
2.5°	1298.0
5°	1308.6
7.5°	1321.0
10°	1333.4
12.5°	1345.8
15°	1358.1
17.5°	1359.9
20°	1340.5
22.5°	1294.5
25°	1230.8
27.5°	1151.2
30°	1055.7
32.5°	939.0
35°	801.1
37.5°	650.8
40°	504.0
42.5°	351.9
45°	229.9
47.5°	155.6
50°	122.0
52.5°	90.2
55°	65.4
57.5°	42.4
60°	19.5
62.5°	10.6
65°	3.5
67.5°	1.8
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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