

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: P643144

Luminaire Tested: ML5615LSVWFL759FS1E - 593TBZB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643144
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 - 4000K
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

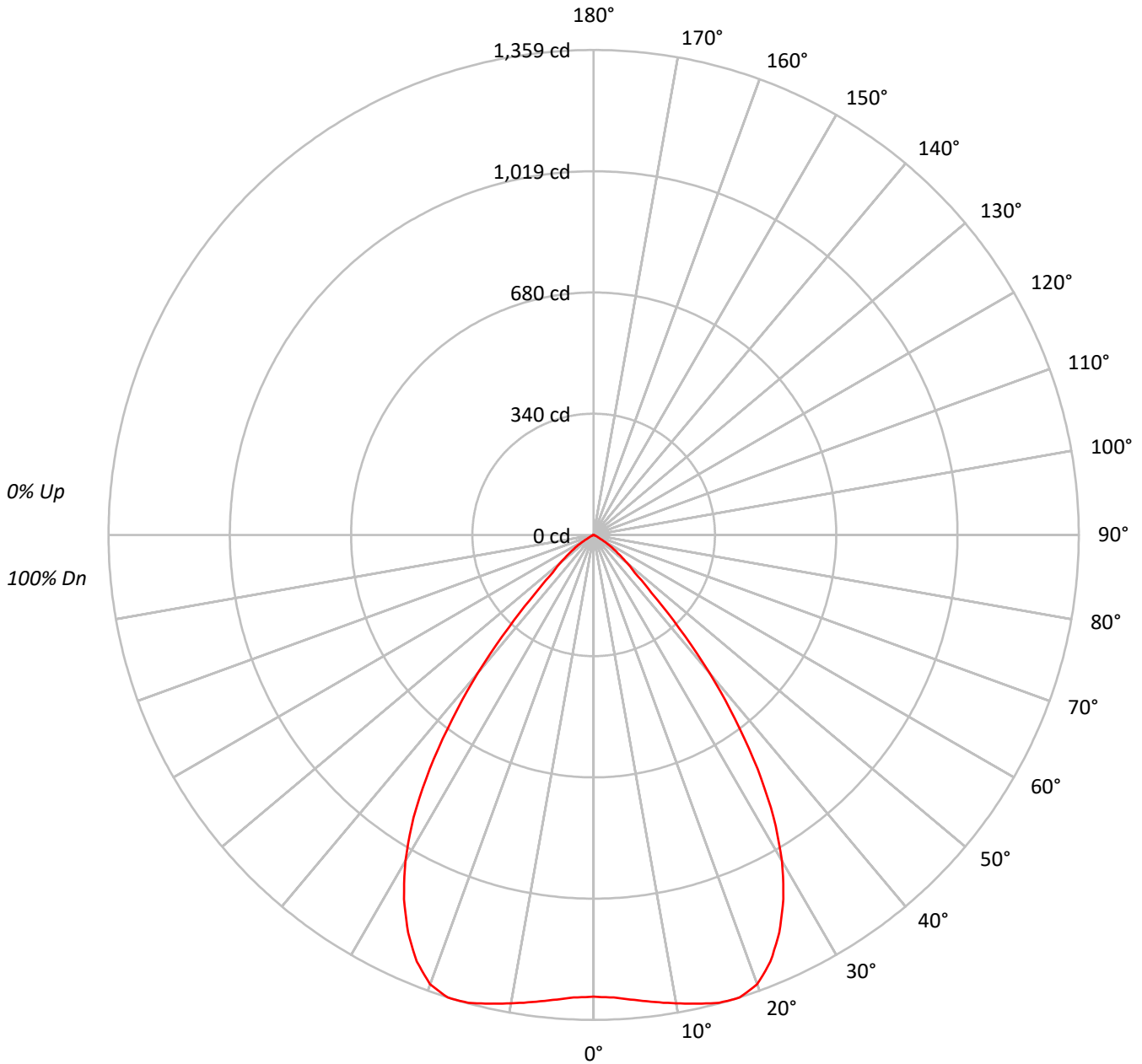
Lumens per Lamp: N/A
Luminaire Lumens: 1824.2 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (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				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	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	78	78	78	78
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73	71	71	71	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65	65	65	65
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60	60	60	60
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55	55	55	55
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51	51	51	51
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49	47	47	47	47
10	67	56	50	46	66	56	50	46	55	49	46	54	49	45	53	49	45	44	44	44	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	102150
5°	103657
10°	106844
15°	110951
20°	112561
25°	107161
30°	96194
35°	77172
40°	51917
45°	25655
50°	14983
55°	9001
60°	3063
65°	654
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25655 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	6.9
10°-20°	382.8	21.0
20°-30°	560.0	30.7
30°-40°	490.9	26.9
40°-50°	199.2	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°	1068.5	58.6
0°-40°	1559.4	85.5
0°-60°	1818.0	99.7
0°-90°	1824.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1824.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1294	
5°	1308	126
15°	1358	383
25°	1230	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°	1294.0
2.5°	1297.5
5°	1308.1
7.5°	1320.5
10°	1332.9
12.5°	1345.3
15°	1357.6
17.5°	1359.4
20°	1339.9
22.5°	1294.0
25°	1230.3
27.5°	1150.8
30°	1055.3
32.5°	938.7
35°	800.8
37.5°	650.5
40°	503.8
42.5°	351.8
45°	229.8
47.5°	155.6
50°	122.0
52.5°	90.2
55°	65.4
57.5°	42.4
60°	19.4
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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