

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: P640404

Luminaire Tested: ML5609LSVWFL75D2W1E - 593TBZB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640404
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: ML5609LSVWFL75D2W1E - 593TBZB - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

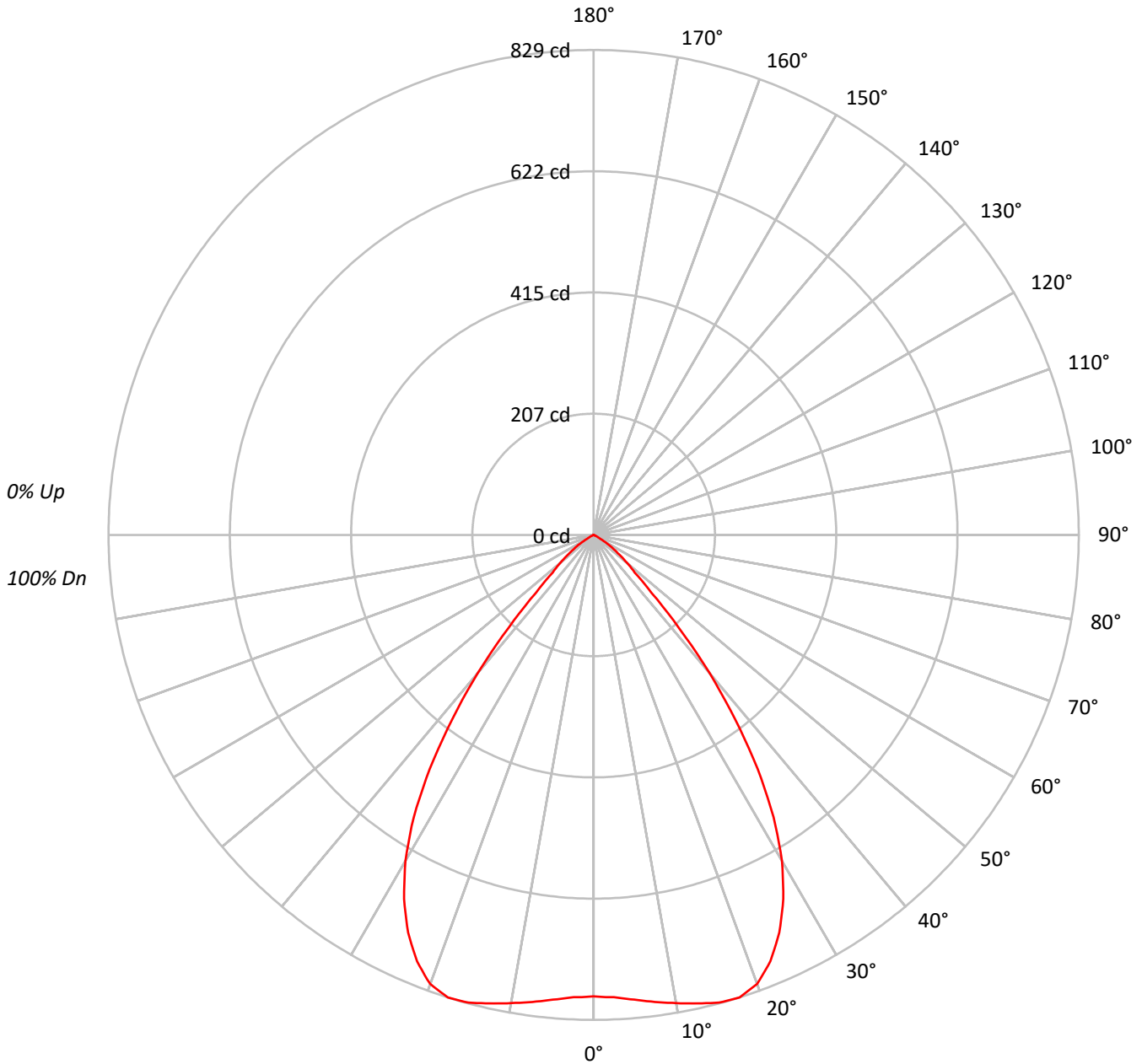
Lumens per Lamp: N/A
Luminaire Lumens: 1112.4 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 11.8
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	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°	62284
5°	63204
10°	65145
15°	67652
20°	68634
25°	65344
30°	58657
35°	47057
40°	31657
45°	15641
50°	9137
55°	5491
60°	1879
65°	411
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15641 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	6.9
10°-20°	233.4	21.0
20°-30°	341.5	30.7
30°-40°	299.3	26.9
40°-50°	121.5	10.9
50°-60°	36.3	3.3
60°-70°	3.8	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°	651.5	58.6
0°-40°	950.8	85.5
0°-60°	1108.6	99.7
0°-90°	1112.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1112.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	789	
5°	798	77
15°	828	233
25°	750	341
35°	488	299
45°	140	121
55°	40	36
65°	2	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	789.0
2.5°	791.1
5°	797.6
7.5°	805.2
10°	812.7
12.5°	820.3
15°	827.8
17.5°	828.9
20°	817.0
22.5°	789.0
25°	750.2
27.5°	701.7
30°	643.5
32.5°	572.3
35°	488.3
37.5°	396.7
40°	307.2
42.5°	214.5
45°	140.1
47.5°	94.9
50°	74.4
52.5°	55.0
55°	39.9
57.5°	25.9
60°	11.9
62.5°	6.5
65°	2.2
67.5°	1.1
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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(END OF REPORT)