

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P640431

Luminaire Tested: ML5609LSVWFL75D2W1E - 694TBZB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-91)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 694TBZB - 900LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

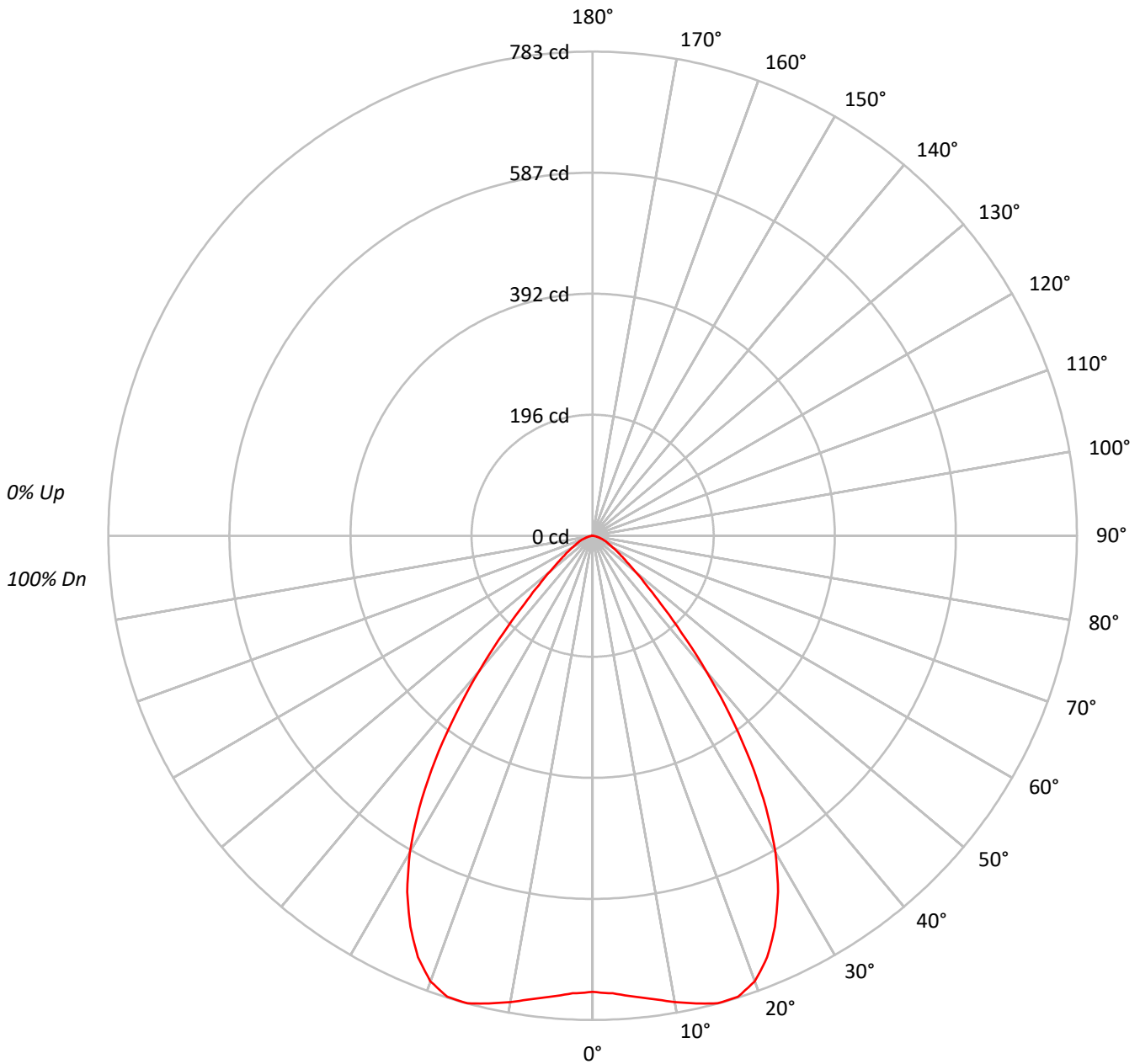
Lumens per Lamp: N/A
Luminaire Lumens: 1102.6 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 11.8
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					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				
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83				
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75				
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68				
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62				
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57				
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	52				
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48				
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45				
10	65	54	48	44	64	54	48	43	53	47	43	52	47	43	51	47	43	42				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40435
5°	41146
10°	42623
15°	44427
20°	44728
25°	42190
30°	37417
35°	29754
40°	20395
45°	12063
50°	7701
55°	5371
60°	4068
65°	3386
70°	2741
75°	2118
80°	1263
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12063 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	6.5
10°-20°	220.2	20.0
20°-30°	317.4	28.8
30°-40°	273.8	24.8
40°-50°	128.3	11.6
50°-60°	52.6	4.8
60°-70°	26.3	2.4
70°-80°	10.7	1.0
80°-90°	1.4	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°	609.5	55.3
0°-40°	883.3	80.1
0°-60°	1064.2	96.5
0°-90°	1102.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1102.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	738	
5°	748	72
15°	783	220
25°	698	317
35°	445	274
45°	156	128
55°	56	53
65°	26	26
75°	10	11
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	737.6
2.5°	740.7
5°	747.7
7.5°	755.7
10°	765.7
12.5°	774.8
15°	782.8
17.5°	781.8
20°	766.7
22.5°	737.6
25°	697.5
27.5°	649.3
30°	591.1
32.5°	521.9
35°	444.6
37.5°	363.3
40°	285.0
42.5°	212.8
45°	155.6
47.5°	117.4
50°	90.3
52.5°	70.3
55°	56.2
57.5°	46.2
60°	37.1
62.5°	31.1
65°	26.1
67.5°	22.1
70°	17.1
72.5°	13.0
75°	10.0
77.5°	7.0
80°	4.0
82.5°	2.0
85°	1.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)