

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: P640524

Luminaire Tested: ML5609LSWFL55D2W1E - 694TBZB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640524
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-68)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSWFL55D2W1E - 694TBZB - 900LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

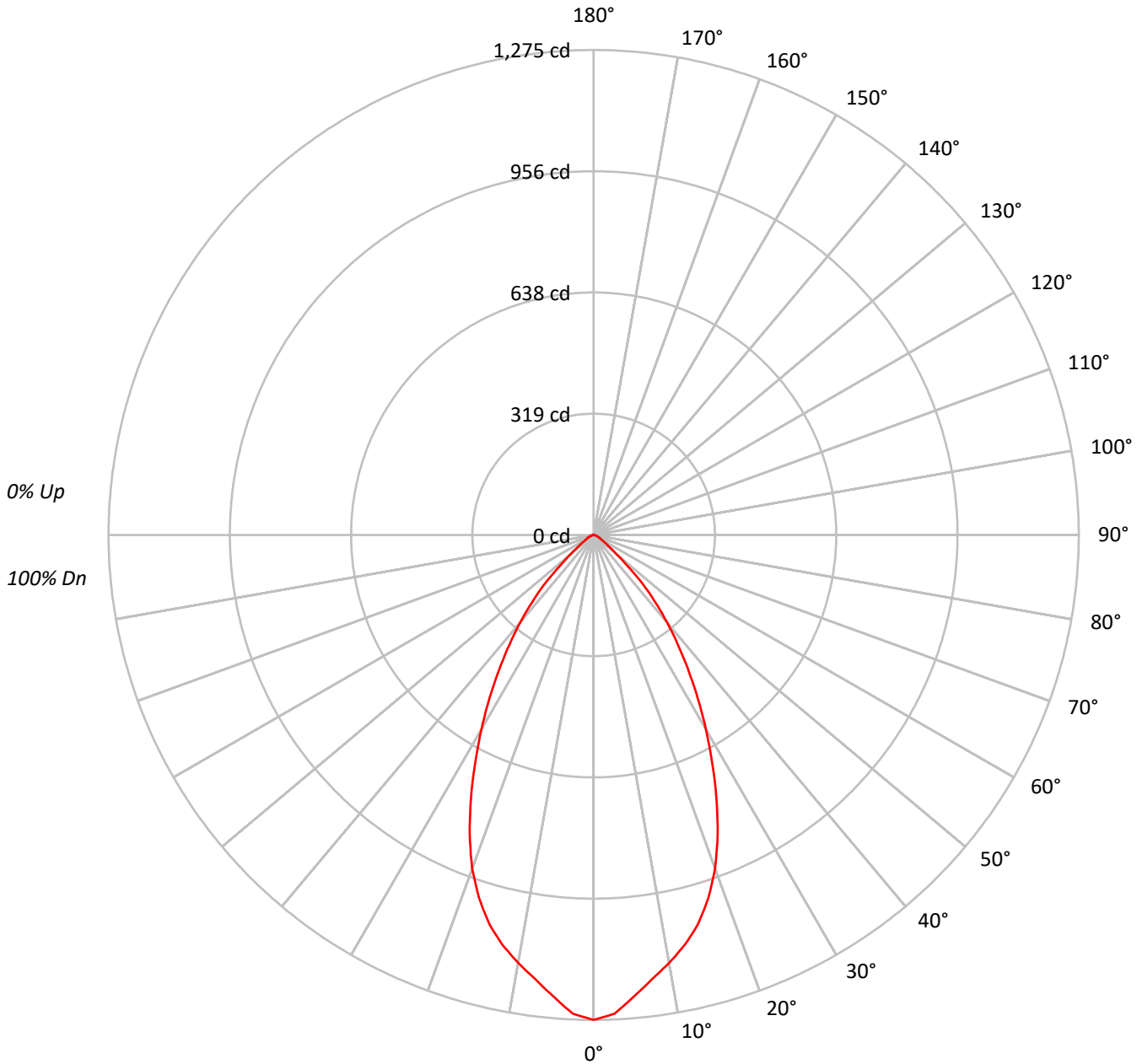
Lumens per Lamp: N/A
Luminaire Lumens: 1226.5 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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																	
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	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	110	108	105	103	104	102	100	100	98	97	97	95	94	92																											
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85																											
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																											
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																											
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																											
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61																											
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																											
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																											
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																											
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	69890
5°	67015
10°	63587
15°	60125
20°	54447
25°	46152
30°	37316
35°	28991
40°	21440
45°	14118
50°	6797
55°	3603
60°	2368
65°	1959
70°	1555
75°	1144
80°	695
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14118 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	9.3
10°-20°	294.9	24.0
20°-30°	348.1	28.4
30°-40°	271.4	22.1
40°-50°	138.9	11.3
50°-60°	37.7	3.1
60°-70°	15.3	1.2
70°-80°	5.8	0.5
80°-90°	0.6	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°	756.9	61.7
0°-40°	1028.3	83.8
0°-60°	1204.8	98.2
0°-90°	1226.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1226.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1275	
5°	1218	114
15°	1059	295
25°	763	348
35°	433	271
45°	182	139
55°	38	38
65°	15	15
75°	5	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1274.9
2.5°	1259.8
5°	1217.8
7.5°	1177.9
10°	1142.3
12.5°	1104.6
15°	1059.4
17.5°	1001.2
20°	933.3
22.5°	851.4
25°	763.0
27.5°	673.6
30°	589.5
32.5°	509.7
35°	433.2
37.5°	363.2
40°	299.6
42.5°	238.2
45°	182.1
47.5°	119.6
50°	79.7
52.5°	53.9
55°	37.7
57.5°	28.0
60°	21.6
62.5°	18.3
65°	15.1
67.5°	12.9
70°	9.7
72.5°	7.5
75°	5.4
77.5°	3.2
80°	2.2
82.5°	1.1
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)