

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: P640504

Luminaire Tested: ML5609LSWFL55D2W1E - 594WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-55)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSWFL55D2W1E - 594WB - 900LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

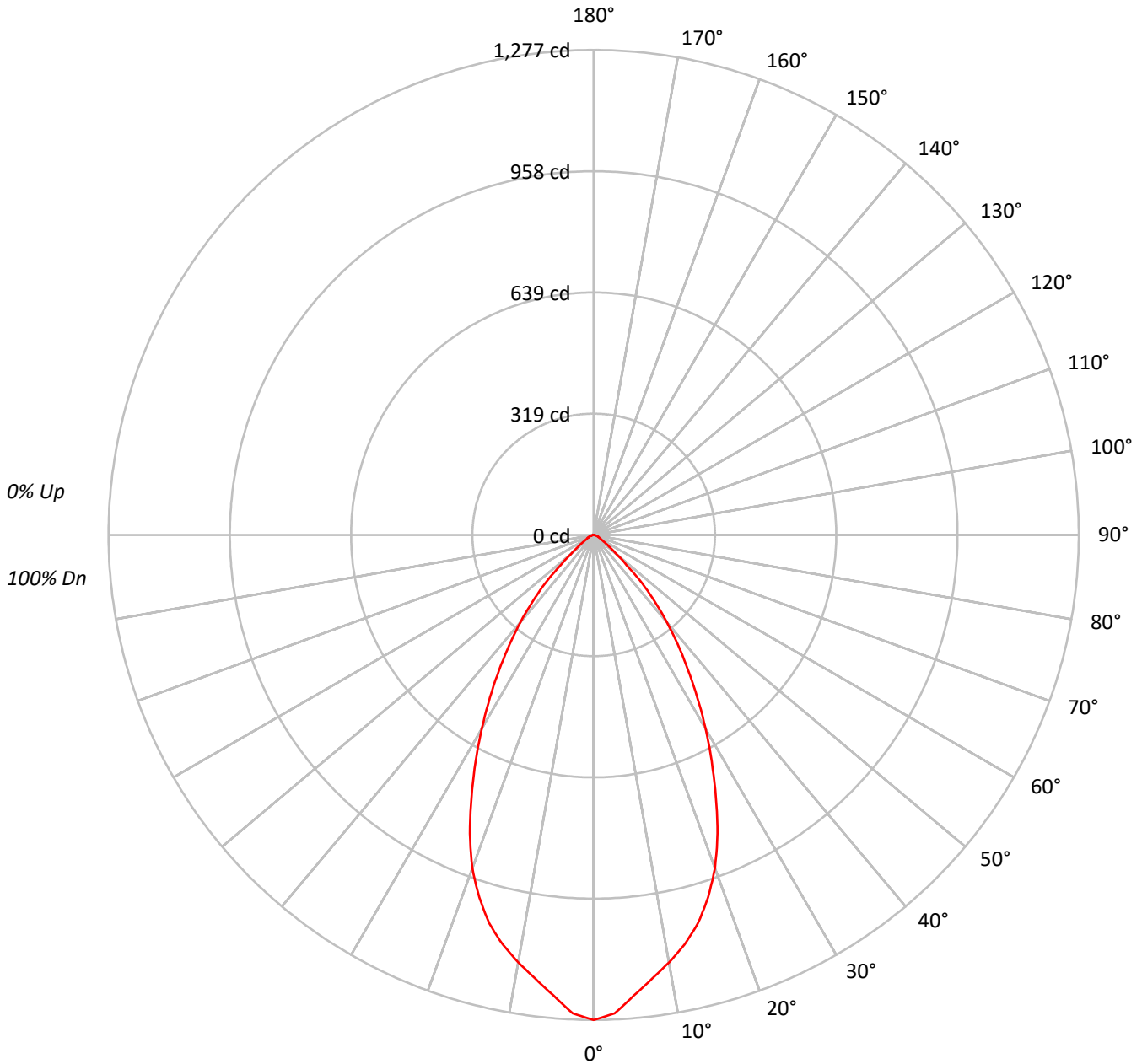
Lumens per Lamp: N/A
Luminaire Lumens: 1225.5 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100																
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92																
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85			85																
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			78																
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			72																
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66																
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61			61																
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			57																
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53			53																
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49			49																
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46			46																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	100831
5°	96438
10°	91589
15°	86597
20°	78421
25°	66284
30°	53644
35°	41651
40°	30771
45°	20218
50°	9665
55°	5189
60°	3568
65°	2821
70°	2493
75°	1647
80°	1000
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20218 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	9.3
10°-20°	294.9	24.1
20°-30°	347.8	28.4
30°-40°	270.8	22.1
40°-50°	138.3	11.3
50°-60°	37.7	3.1
60°-70°	15.6	1.3
70°-80°	5.9	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°	756.6	61.7
0°-40°	1027.4	83.8
0°-60°	1203.4	98.2
0°-90°	1225.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1277	
5°	1217	114
15°	1060	295
25°	761	348
35°	432	271
45°	181	138
55°	38	38
65°	15	16
75°	5	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1277.3
2.5°	1261.2
5°	1217.0
7.5°	1178.2
10°	1142.6
12.5°	1104.9
15°	1059.6
17.5°	1001.4
20°	933.5
22.5°	851.6
25°	761.0
27.5°	672.6
30°	588.5
32.5°	507.7
35°	432.2
37.5°	363.3
40°	298.6
42.5°	238.2
45°	181.1
47.5°	118.6
50°	78.7
52.5°	53.9
55°	37.7
57.5°	28.0
60°	22.6
62.5°	18.3
65°	15.1
67.5°	12.9
70°	10.8
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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