

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: P640488

Luminaire Tested: ML5609LSWFL55D2W1E - 592SC - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSWFL55D2W1E - 592SC - 900LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

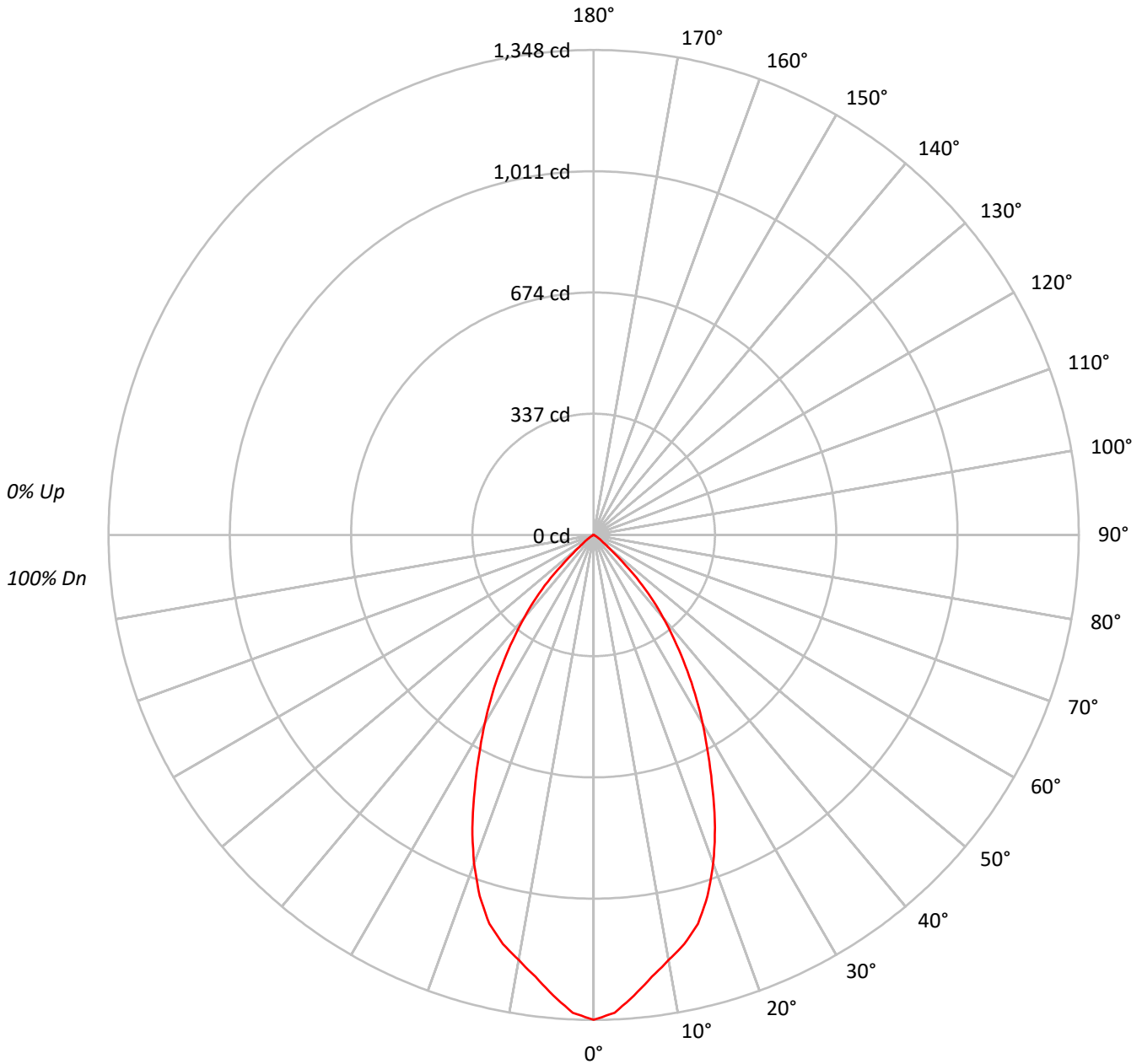
Lumens per Lamp: N/A
Luminaire Lumens: 1214.7 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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					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	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	100	100		
	1	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93	93	93	93	93	93		
	2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86	86	86		
	3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80	80	80	80	80	80		
	4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74	74	74	74	74	74		
	5	91	82	76	72	89	82	76	72	80	75	71	78	74	70	76	73	70	68	68	68	68	68	68		
	6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63	63	63	63	63	63		
	7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59	59	59	59	59	59		
	8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55	55	55	55	55	55		
	9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51	51	51	51	51	51		
	10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	50	48	48	48	48	48	48		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	106389
5°	101842
10°	96190
15°	91467
20°	81605
25°	68087
30°	55139
35°	42807
40°	30997
45°	18778
50°	6226
55°	2821
60°	853
65°	205
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18778 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	9.9
10°-20°	310.1	25.5
20°-30°	358.3	29.5
30°-40°	277.3	22.8
40°-50°	127.5	10.5
50°-60°	20.2	1.7
60°-70°	1.5	0.1
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°	788.3	64.9
0°-40°	1065.6	87.7
0°-60°	1213.3	99.9
0°-90°	1214.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1214.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1348	
5°	1285	120
15°	1119	310
25°	782	358
35°	444	277
45°	168	127
55°	20	20
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1347.7
2.5°	1329.4
5°	1285.2
7.5°	1238.8
10°	1200.0
12.5°	1164.4
15°	1119.2
17.5°	1052.3
20°	971.4
22.5°	880.9
25°	781.7
27.5°	689.0
30°	604.9
32.5°	524.0
35°	444.2
37.5°	368.7
40°	300.8
42.5°	236.1
45°	168.2
47.5°	92.7
50°	50.7
52.5°	31.3
55°	20.5
57.5°	11.9
60°	5.4
62.5°	2.2
65°	1.1
67.5°	0.0
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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