

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: P643881

Luminaire Tested: ML5615LSWFL559FS1E - 594TBZB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 594TBZB - 900LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

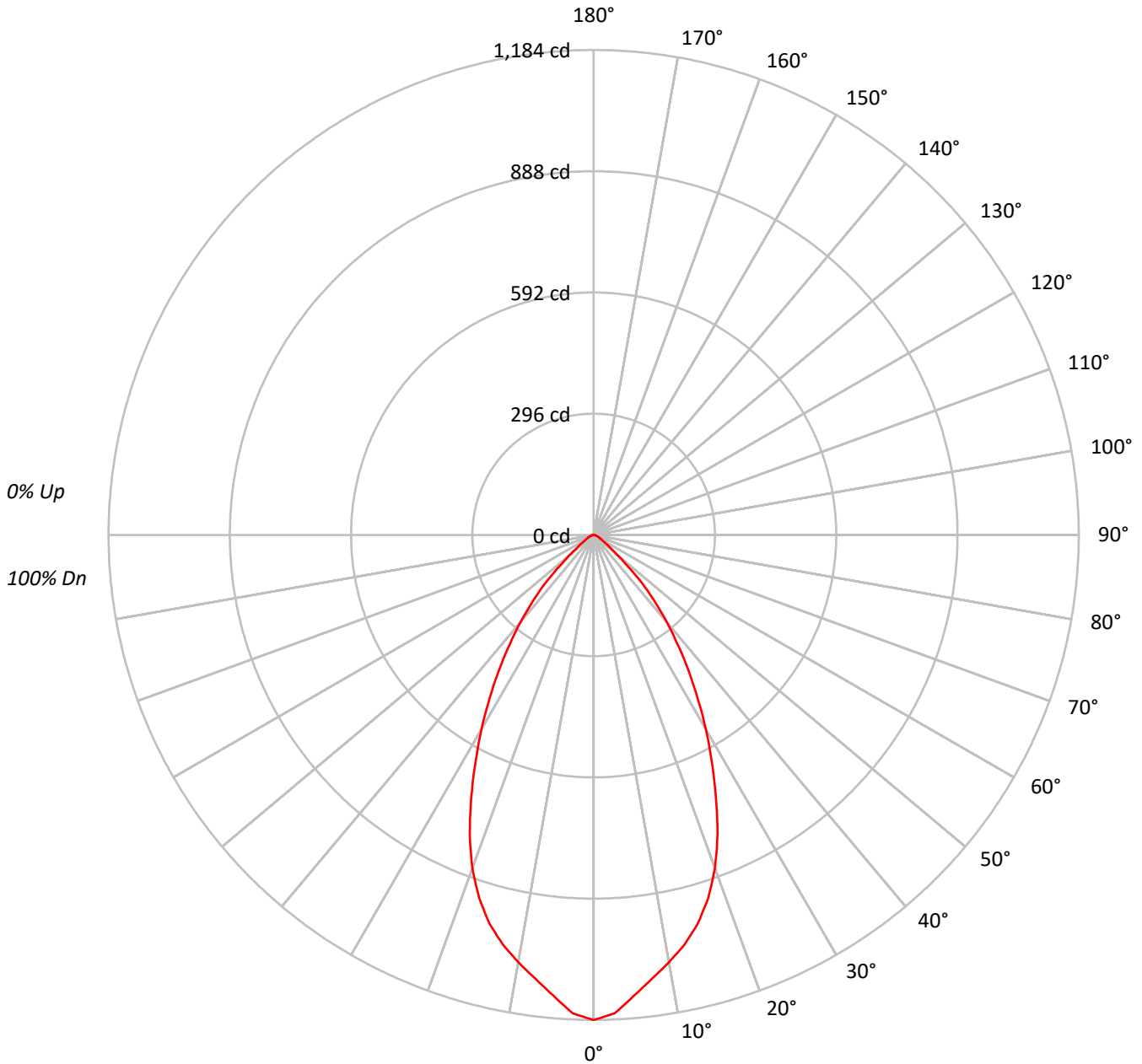
Lumens per Lamp: N/A
Luminaire Lumens: 1137.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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																			
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	70	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°	93482
5°	89481
10°	84904
15°	80271
20°	72683
25°	61502
30°	49870
35°	38750
40°	28555
45°	18755
50°	9088
55°	4817
60°	3158
65°	2615
70°	2077
75°	1525
80°	909
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18755 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	9.3
10°-20°	273.4	24.1
20°-30°	322.7	28.4
30°-40°	251.5	22.1
40°-50°	128.6	11.3
50°-60°	35.0	3.1
60°-70°	14.2	1.2
70°-80°	5.4	0.5
80°-90°	0.5	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°	701.8	61.7
0°-40°	953.3	83.8
0°-60°	1116.8	98.2
0°-90°	1137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1137.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1184	
5°	1129	106
15°	982	273
25°	706	323
35°	402	251
45°	168	129
55°	35	35
65°	14	14
75°	5	5
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1184.2
2.5°	1169.2
5°	1129.2
7.5°	1092.2
10°	1059.2
12.5°	1024.2
15°	982.2
17.5°	929.2
20°	865.2
22.5°	790.2
25°	706.1
27.5°	624.1
30°	547.1
32.5°	472.1
35°	402.1
37.5°	336.1
40°	277.1
42.5°	221.0
45°	168.0
47.5°	111.0
50°	74.0
52.5°	50.0
55°	35.0
57.5°	26.0
60°	20.0
62.5°	17.0
65°	14.0
67.5°	12.0
70°	9.0
72.5°	7.0
75°	5.0
77.5°	3.0
80°	2.0
82.5°	1.0
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)