

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: P643983

Luminaire Tested: ML5615LSWFL559FS1E - 693BB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-64)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 693BB - 1500LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

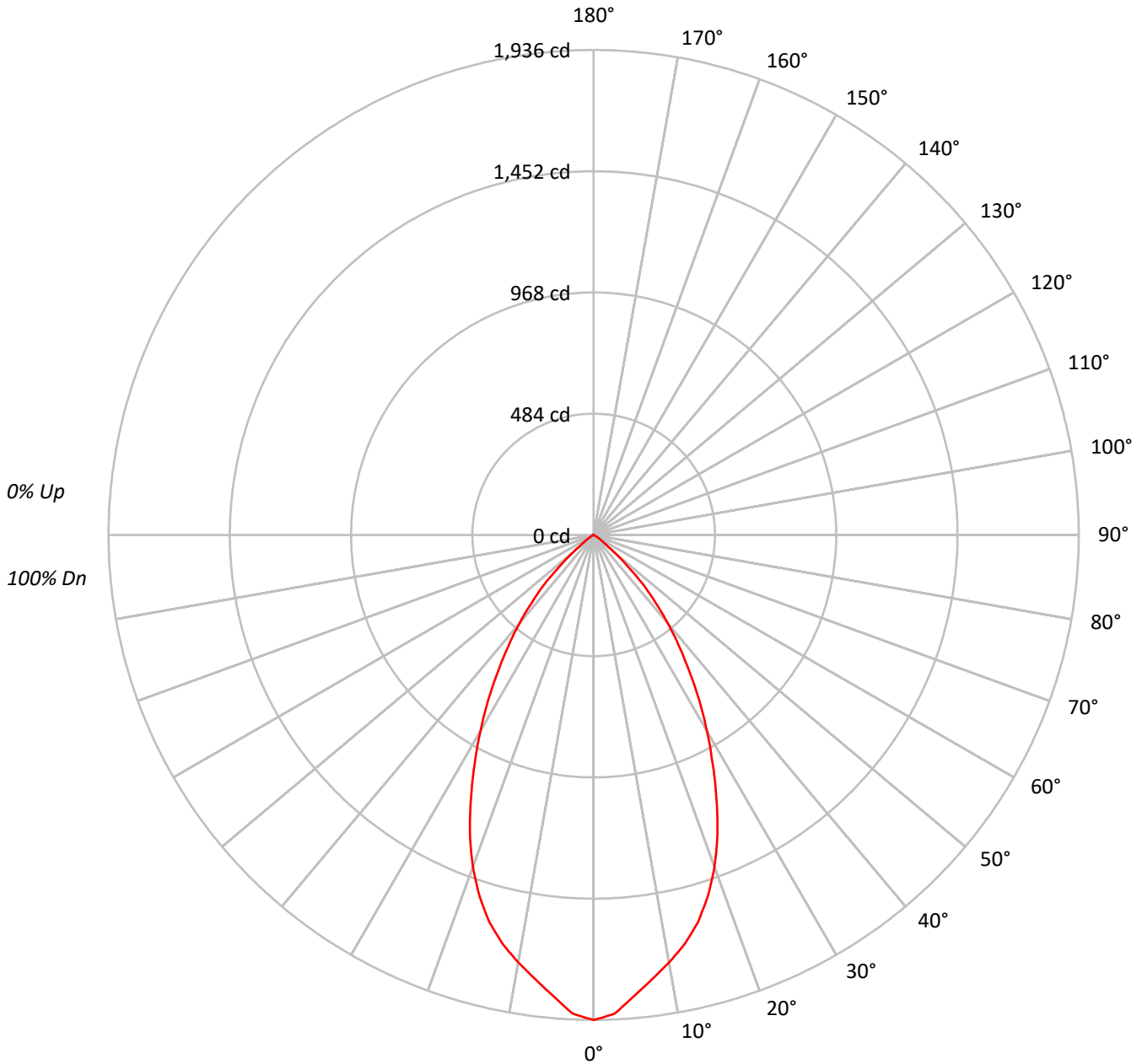
Lumens per Lamp: N/A
Luminaire Lumens: 1815.4 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93				93															
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86				86															
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79				79															
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73				73															
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67				67															
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62				62															
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58				58															
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54				54															
9	73	63	57	53	72	62	56	52	61	56	52	61	56	52	60	55	52	50				50															
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47				47															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	106159
5°	101678
10°	96447
15°	90965
20°	82280
25°	70099
30°	57230
35°	44557
40°	32940
45°	21413
50°	8836
55°	3297
60°	1447
65°	208
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21413 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	9.5
10°-20°	446.2	24.6
20°-30°	529.3	29.2
30°-40°	417.2	23.0
40°-50°	209.6	11.5
50°-60°	37.1	2.0
60°-70°	3.2	0.2
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°	1148.4	63.3
0°-40°	1565.5	86.2
0°-60°	1812.2	99.8
0°-90°	1815.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1815.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1936	
5°	1848	173
15°	1603	446
25°	1159	529
35°	666	417
45°	276	210
55°	34	37
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1936.5
2.5°	1913.4
5°	1847.7
7.5°	1788.5
10°	1732.6
12.5°	1673.4
15°	1602.8
17.5°	1514.0
20°	1410.4
22.5°	1290.4
25°	1158.9
27.5°	1027.4
30°	904.1
32.5°	784.1
35°	665.8
37.5°	558.9
40°	460.3
42.5°	364.9
45°	276.2
47.5°	179.2
50°	103.6
52.5°	54.2
55°	34.5
57.5°	21.4
60°	13.2
62.5°	4.9
65°	1.6
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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(END OF REPORT)