

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: P642576

Luminaire Tested: ML5615LSFL409FS1E - 692SC - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSFL409FS1E - 692SC - 900LM - 2700K
Description: ML56 RR, 40D TIR OPTIC, 6" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

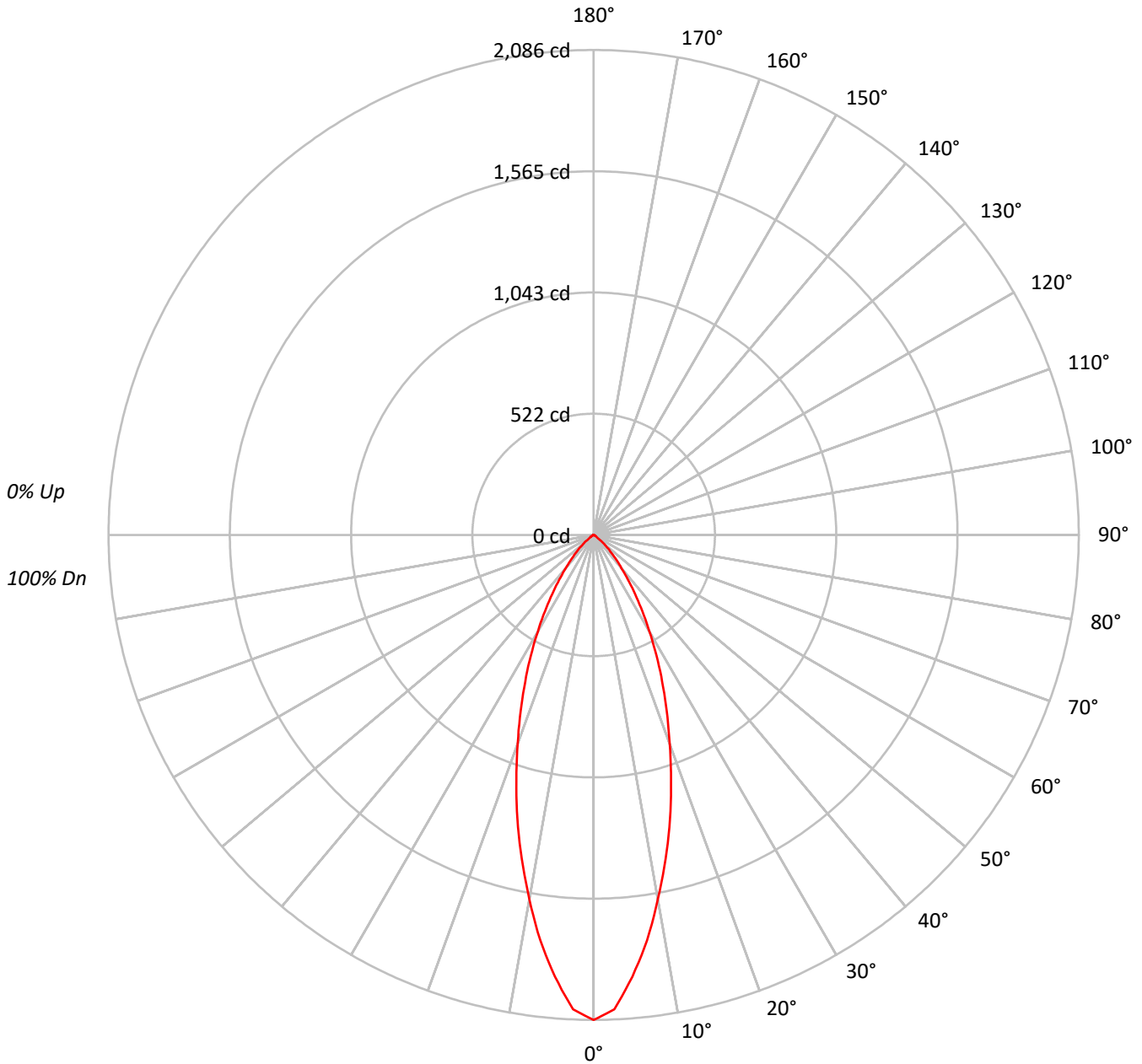
Lumens per Lamp: N/A
Luminaire Lumens: 1145.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.66
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): 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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102		101	100	99		98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93		96	93	91		93	91	89	88
3	103	97	92	88	101	96	91	88	93	89	86		91	88	85		88	86	84	82
4	98	91	86	82	96	90	85	81	88	83	80		86	82	79		84	81	78	77
5	94	86	80	76	92	85	79	75	83	78	75		81	77	74		80	76	73	72
6	89	81	75	71	88	80	74	71	78	74	70		77	73	70		76	72	69	68
7	85	76	70	66	84	76	70	66	74	69	66		73	69	66		72	68	65	64
8	81	72	66	62	80	72	66	62	71	66	62		69	65	62		69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59		66	62	59		65	61	58	57
10	74	65	60	56	73	65	59	56	64	59	56		63	59	56		62	58	55	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	114382
5°	104963
10°	88587
15°	71868
20°	55667
25°	42172
30°	30391
35°	20753
40°	13311
45°	8140
50°	4264
55°	1625
60°	987
65°	389
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8140 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	15.1
10°-20°	350.2	30.6
20°-30°	319.6	27.9
30°-40°	196.5	17.2
40°-50°	84.3	7.4
50°-60°	18.7	1.6
60°-70°	3.3	0.3
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°	842.2	73.6
0°-40°	1038.7	90.7
0°-60°	1141.7	99.7
0°-90°	1145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1145.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2086	
5°	1907	172
15°	1266	350
25°	697	320
35°	310	197
45°	105	84
55°	17	19
65°	3	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2086.5
2.5°	2042.5
5°	1907.4
7.5°	1759.4
10°	1591.4
12.5°	1427.3
15°	1266.3
17.5°	1105.3
20°	954.2
22.5°	819.2
25°	697.2
27.5°	584.1
30°	480.1
32.5°	389.1
35°	310.1
37.5°	242.1
40°	186.0
42.5°	143.0
45°	105.0
47.5°	77.0
50°	50.0
52.5°	25.0
55°	17.0
57.5°	13.0
60°	9.0
62.5°	6.0
65°	3.0
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)