

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: P642852

Luminaire Tested: ML5615LSNFL259FS1E - 594WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 594WB - 1200LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

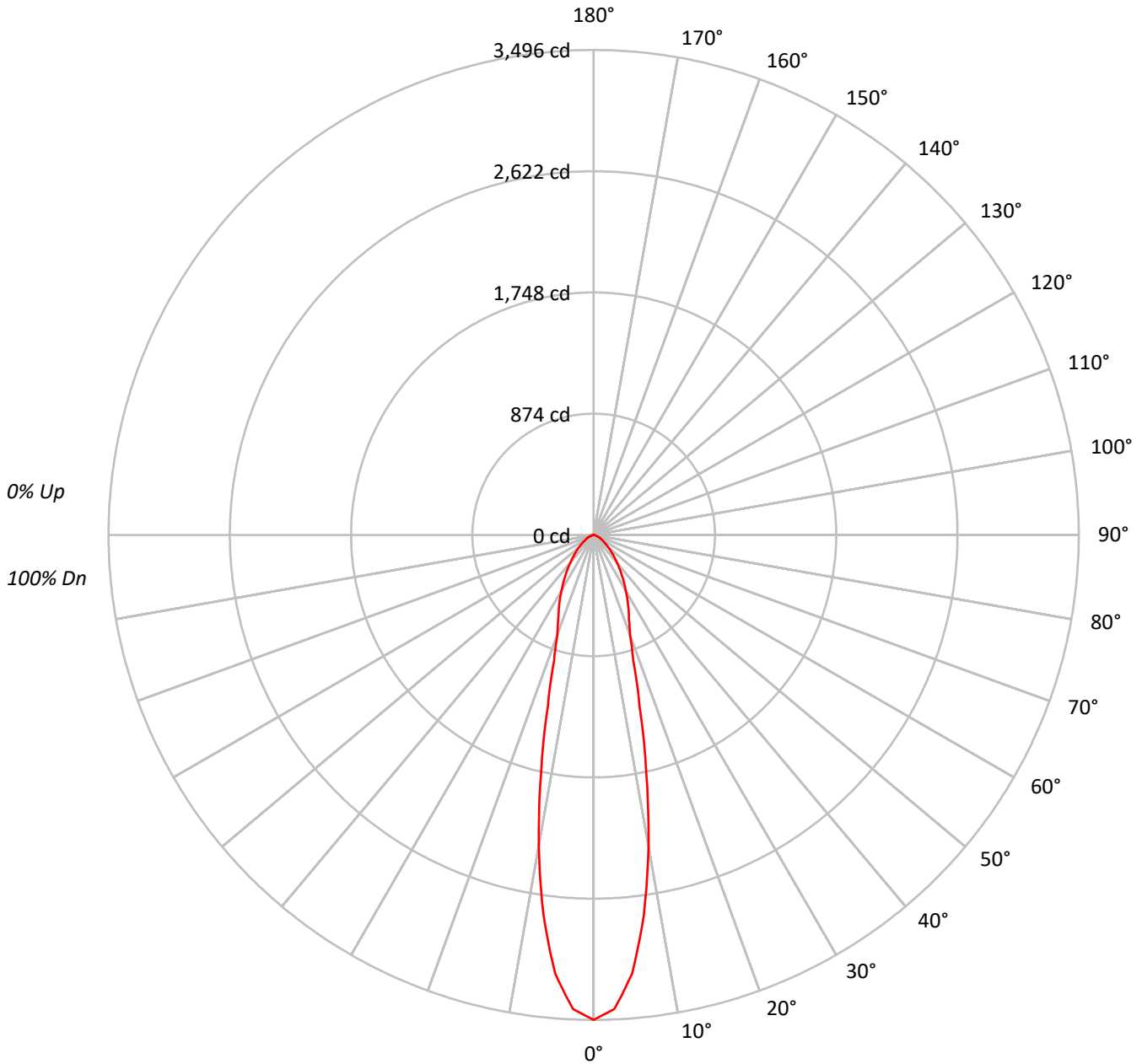
Lumens per Lamp: N/A
Luminaire Lumens: 1432.2 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.4
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	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
1	113	110	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73	73	73	73
5	91	82	76	72	89	81	75	71	79	74	71	78	73	70	76	72	69	68	68	68	68
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	63	63	63	63
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60	60	60	60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56	56	56	56
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54	54	54	54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51	51	51	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	275993
5°	251579
10°	182521
15°	104208
20°	64383
25°	51791
30°	42222
35°	33980
40°	27082
45°	21357
50°	16616
55°	13075
60°	10483
65°	8499
70°	6001
75°	3172
80°	2364
85°	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21357 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.7	19.1
10°-20°	367.0	25.6
20°-30°	274.0	19.1
30°-40°	221.7	15.5
40°-50°	149.0	10.4
50°-60°	86.5	6.0
60°-70°	45.4	3.2
70°-80°	13.0	0.9
80°-90°	1.8	0.1
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°	914.8	63.9
0°-40°	1136.5	79.4
0°-60°	1372.1	95.8
0°-90°	1432.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1432.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3496	
5°	3175	274
15°	1275	367
25°	595	274
35°	353	222
45°	191	149
55°	95	87
65°	46	45
75°	10	13
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3496.2
2.5°	3420.8
5°	3174.8
7.5°	2768.9
10°	2277.0
12.5°	1748.8
15°	1275.1
17.5°	948.5
20°	766.4
22.5°	666.2
25°	594.6
27.5°	527.0
30°	463.2
32.5°	406.0
35°	352.6
37.5°	305.8
40°	262.8
42.5°	225.1
45°	191.3
47.5°	161.3
50°	135.3
52.5°	113.2
55°	95.0
57.5°	79.4
60°	66.4
62.5°	54.6
65°	45.5
67.5°	37.7
70°	26.0
72.5°	16.9
75°	10.4
77.5°	6.5
80°	5.2
82.5°	2.6
85°	1.3
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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