

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P642822

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

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 594SNB - 1200LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

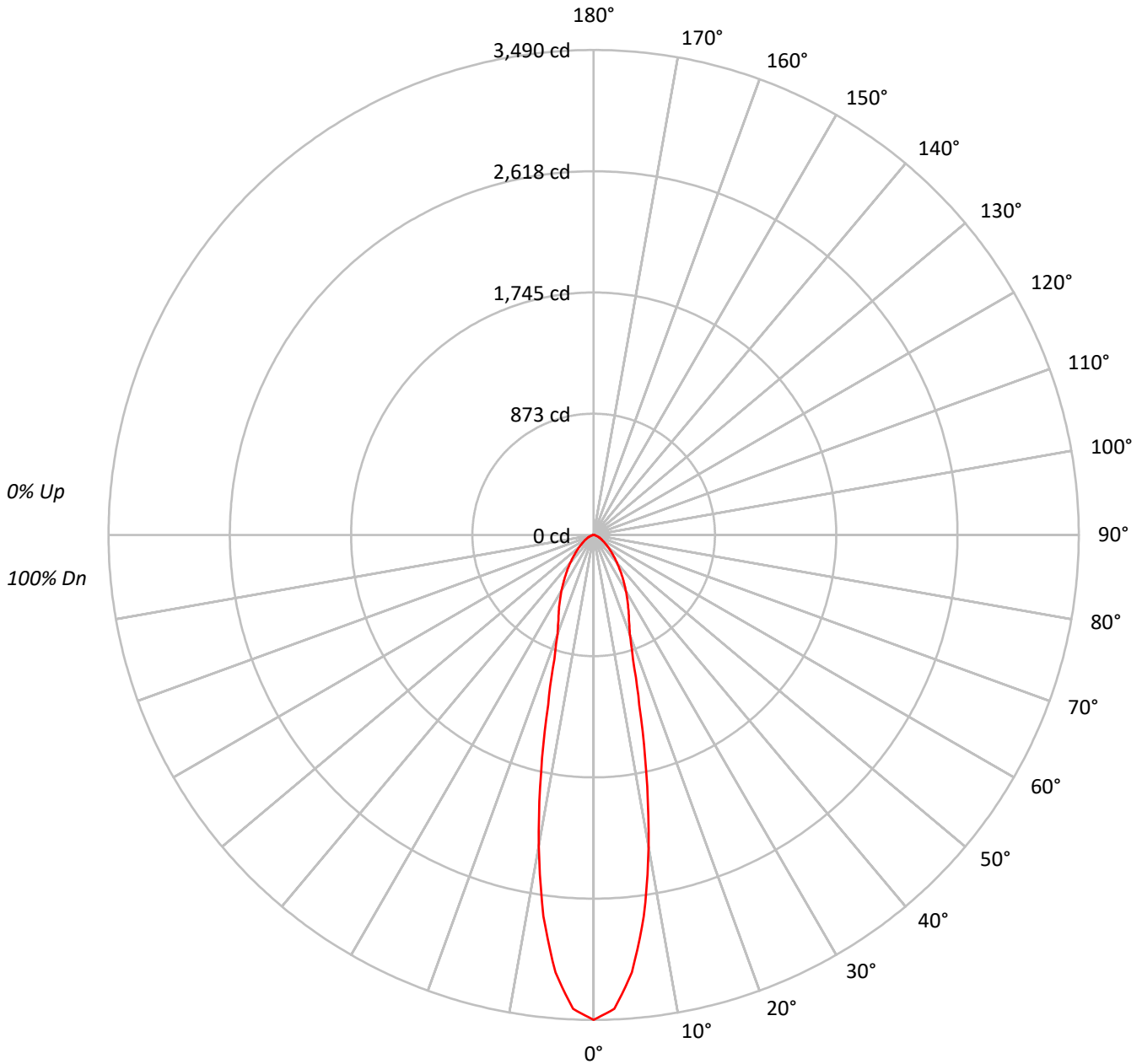
Lumens per Lamp: N/A  
Luminaire Lumens: 1421.9 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	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	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73	73	73	73
5	91	82	76	72	89	81	76	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	74	69	66	72	68	65	64	64	64	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60	60	60	60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57	57	57	57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54	54	54	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	55	52	51	51	51	51

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	275527
5°	250398
10°	182489
15°	103448
20°	63602
25°	51442
30°	42095
35°	33845
40°	26814
45°	21055
50°	16457
55°	12896
60°	10262
65°	8256
70°	6001
75°	3172
80°	1773
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21055 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.2	19.2
10°-20°	364.8	25.7
20°-30°	272.4	19.2
30°-40°	220.3	15.5
40°-50°	147.1	10.3
50°-60°	85.4	6.0
60°-70°	44.6	3.1
70°-80°	12.8	0.9
80°-90°	1.2	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°	910.4	64.0
0°-40°	1130.7	79.5
0°-60°	1363.2	95.9
0°-90°	1421.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1421.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3490	
5°	3160	273
15°	1266	365
25°	591	272
35°	351	220
45°	189	147
55°	94	85
65°	44	45
75°	10	13
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3490.3
2.5°	3413.5
5°	3159.9
7.5°	2767.0
10°	2276.6
12.5°	1744.5
15°	1265.8
17.5°	937.9
20°	757.1
22.5°	663.5
25°	590.6
27.5°	524.3
30°	461.8
32.5°	403.3
35°	351.2
37.5°	303.1
40°	260.2
42.5°	222.5
45°	188.6
47.5°	158.7
50°	134.0
52.5°	111.9
55°	93.7
57.5°	78.1
60°	65.0
62.5°	54.6
65°	44.2
67.5°	36.4
70°	26.0
72.5°	16.9
75°	10.4
77.5°	6.5
80°	3.9
82.5°	2.6
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)