

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: P643633

Luminaire Tested: ML5615LSVWFL9FS1E - 693BB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-110)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 693BB - 1200LM - 3500K
Description: ML56 RR, MILKY 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: 1035.9 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

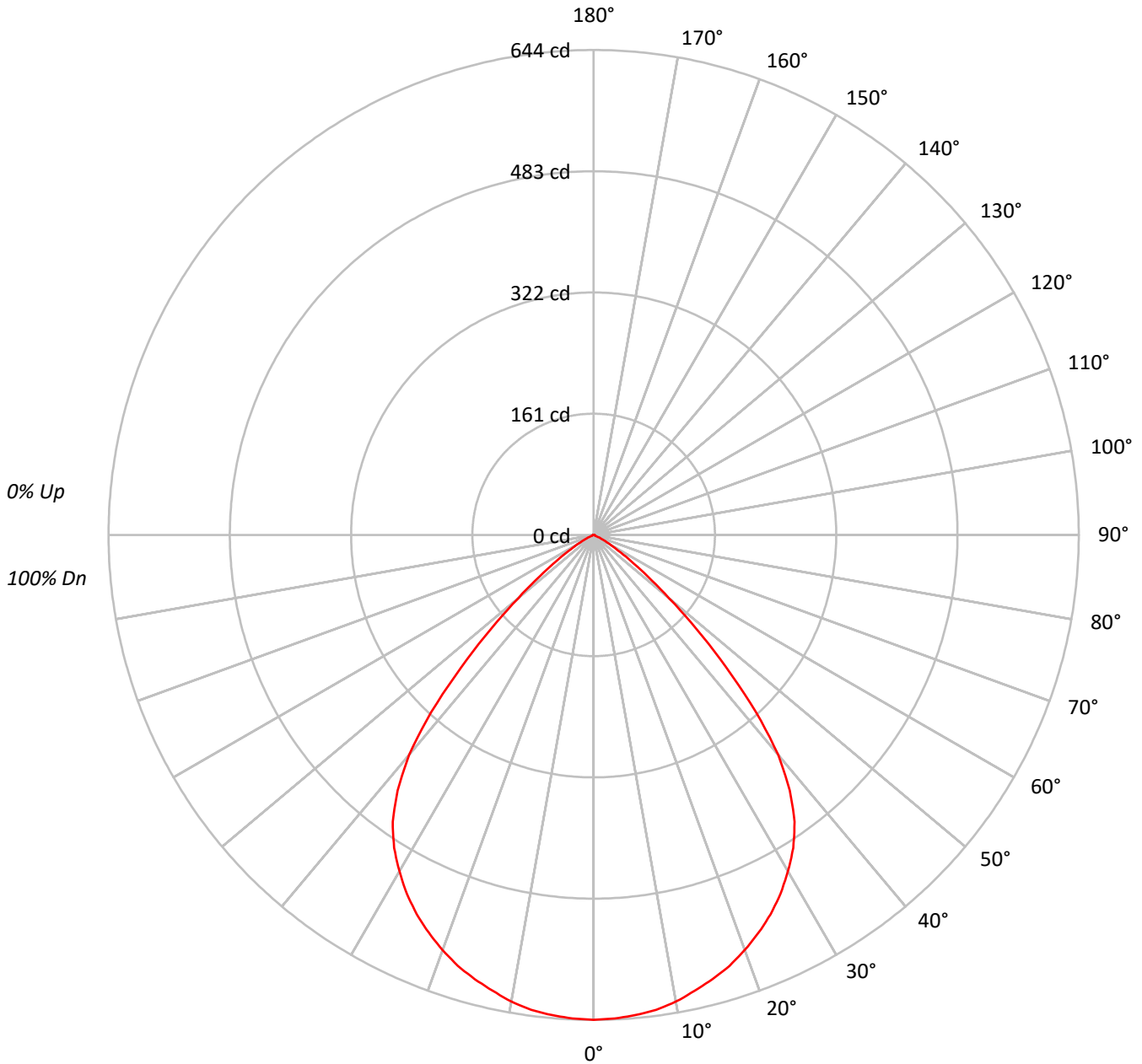
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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			
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83			
3	99	91	85	81	97	90	84	80	87	82	79	84	81	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			
5	86	77	70	64	85	76	69	64	74	68	63	72	67	63	70	66	62	61			
6	81	70	63	58	79	70	63	58	68	62	57	66	61	57	65	60	57	55			
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42			
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	35304
5°	35219
10°	35031
15°	34654
20°	34221
25°	33619
30°	32651
35°	31119
40°	27251
45°	19266
50°	11164
55°	5744
60°	2642
65°	869
70°	208
75°	275
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19266 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.8	5.9
10°-20°	172.2	16.6
20°-30°	255.5	24.7
30°-40°	286.4	27.6
40°-50°	192.4	18.6
50°-60°	58.7	5.7
60°-70°	8.7	0.8
70°-80°	1.2	0.1
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°	488.4	47.2
0°-40°	774.8	74.8
0°-60°	1026.0	99.0
0°-90°	1035.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1035.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	644	
5°	640	61
15°	611	172
25°	556	255
35°	465	286
45°	248	192
55°	60	59
65°	7	9
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	644.0
2.5°	642.7
5°	640.0
7.5°	636.0
10°	629.3
12.5°	620.0
15°	610.6
17.5°	599.9
20°	586.6
22.5°	571.9
25°	555.8
27.5°	537.1
30°	515.8
32.5°	493.0
35°	465.0
37.5°	427.6
40°	380.8
42.5°	319.3
45°	248.5
47.5°	184.4
50°	130.9
52.5°	89.5
55°	60.1
57.5°	38.7
60°	24.1
62.5°	13.4
65°	6.7
67.5°	2.7
70°	1.3
72.5°	1.3
75°	1.3
77.5°	1.3
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)