

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: P641326

Luminaire Tested: ML5612LSVWFL7597FS1E - 593TBZB - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641326
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 593TBZB - 600LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

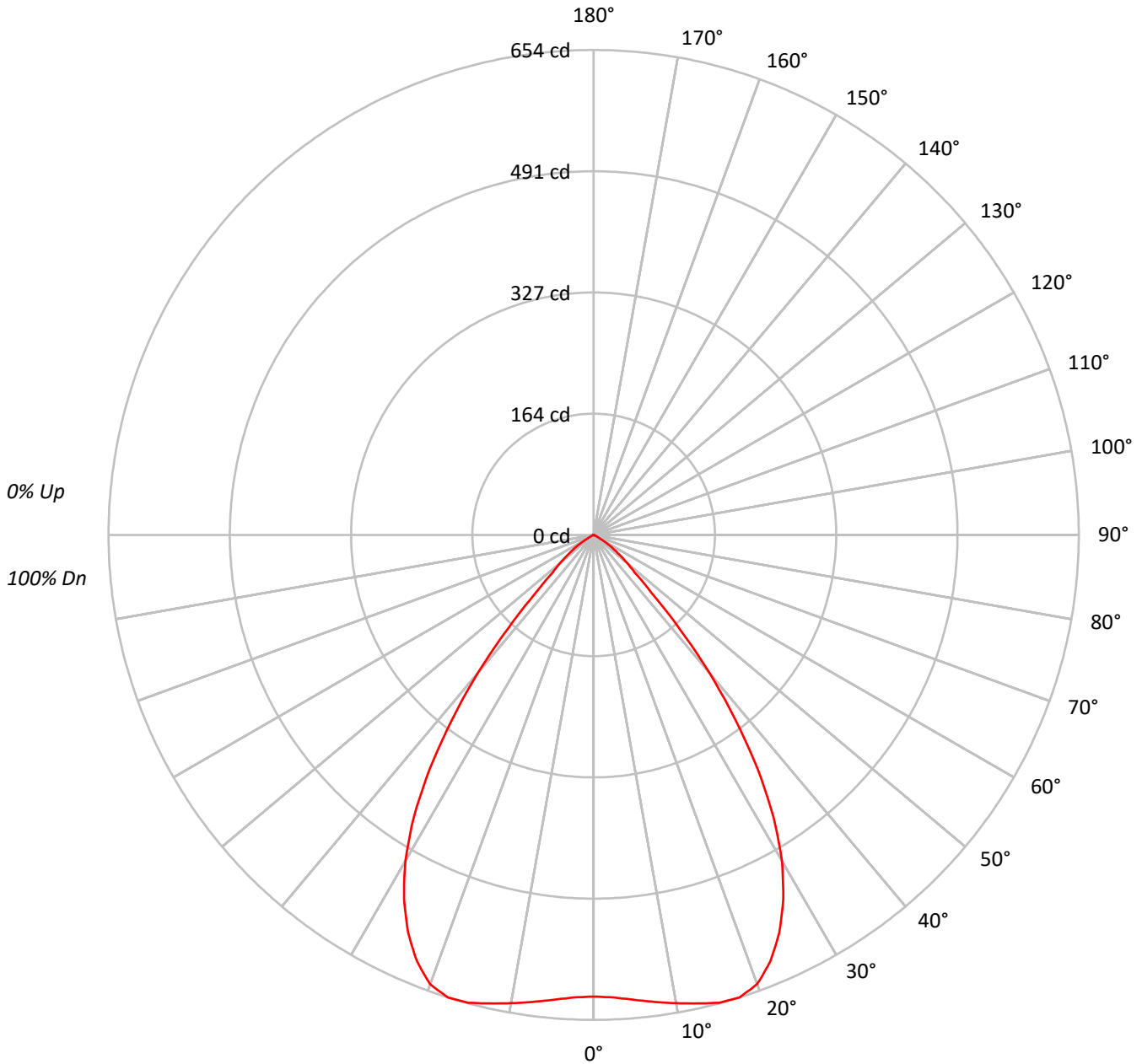
Lumens per Lamp: N/A
Luminaire Lumens: 877.6 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
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	99	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	78	78	78	78
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73	71	71	71	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65	65	65	65
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61	60	60	60	60
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55	55	55	55
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51	51	51	51
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49	47	47	47	47
10	67	56	50	46	66	56	50	46	55	49	46	54	49	45	53	49	45	44	44	44	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49141
5°	49867
10°	51398
15°	53375
20°	54151
25°	51555
30°	46278
35°	37121
40°	24979
45°	12347
50°	7209
55°	4335
60°	1484
65°	318
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12347 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	6.9
10°-20°	184.2	21.0
20°-30°	269.4	30.7
30°-40°	236.2	26.9
40°-50°	95.8	10.9
50°-60°	28.6	3.3
60°-70°	3.0	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°	514.0	58.6
0°-40°	750.2	85.5
0°-60°	874.6	99.7
0°-90°	877.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	622	
5°	629	60
15°	653	184
25°	592	269
35°	385	236
45°	111	96
55°	32	29
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	622.5
2.5°	624.2
5°	629.3
7.5°	635.3
10°	641.2
12.5°	647.2
15°	653.1
17.5°	654.0
20°	644.6
22.5°	622.5
25°	591.9
27.5°	553.6
30°	507.7
32.5°	451.6
35°	385.2
37.5°	313.0
40°	242.4
42.5°	169.2
45°	110.6
47.5°	74.8
50°	58.7
52.5°	43.4
55°	31.5
57.5°	20.4
60°	9.4
62.5°	5.1
65°	1.7
67.5°	0.9
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)