

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: P641293

Luminaire Tested: ML5612LSVWFL7597FS1E - 593BB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-75)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 593BB - 1200LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1433.2 lumens
Efficiency: N/A
Efficacy: 86.9 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

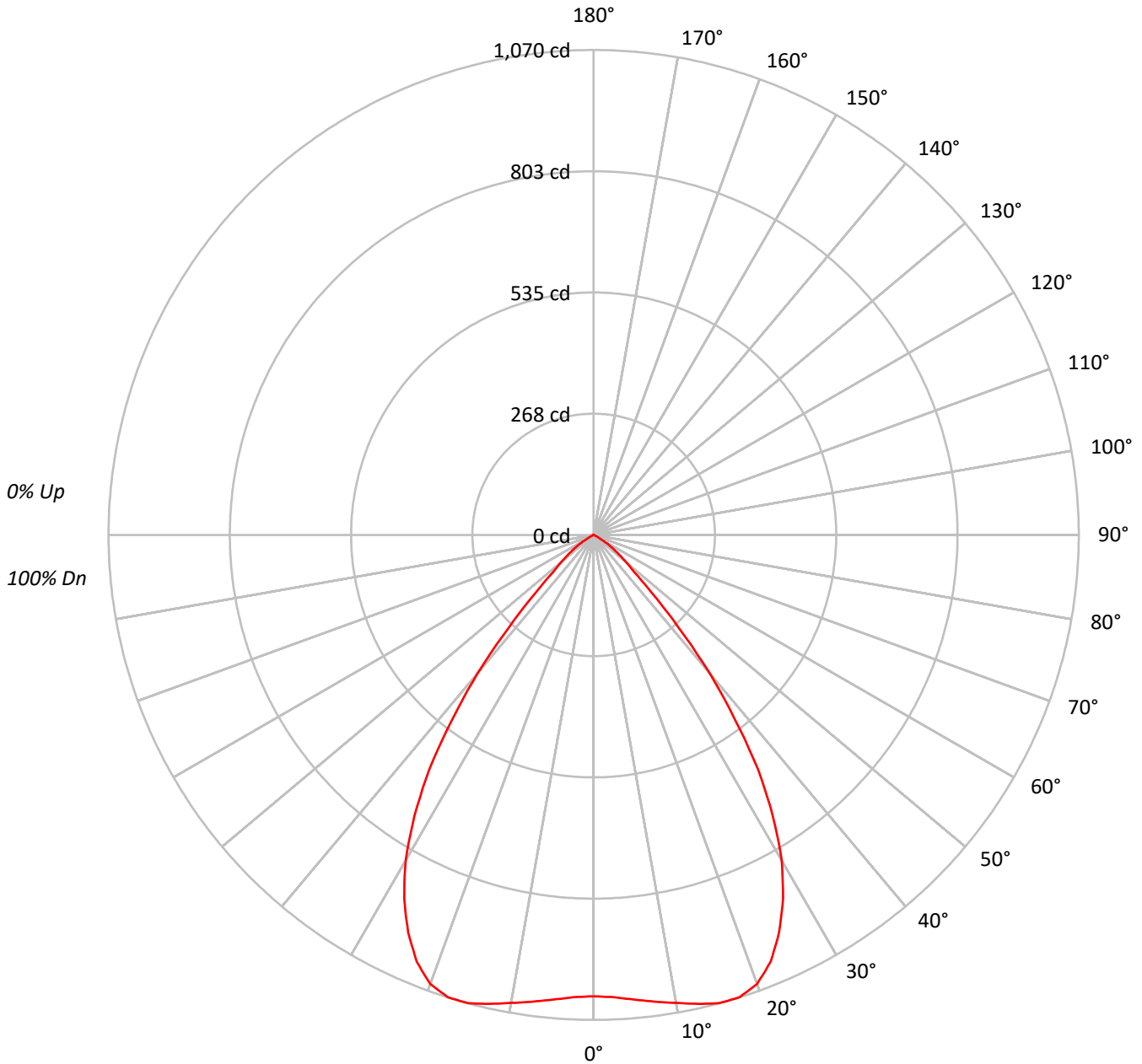
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90		93	91	88		91	88	86	85
3	101	94	88	84	99	92	87	83	90	85	82		87	83	81		85	82	79	78
4	95	87	80	76	93	85	80	75	83	78	74		81	77	74		79	76	73	71
5	89	80	74	69	88	79	73	69	77	72	68		76	71	67		74	70	67	65
6	84	74	68	63	83	74	67	63	72	66	62		70	66	62		69	65	61	60
7	79	69	63	58	78	68	62	58	67	62	57		66	61	57		65	60	57	55
8	75	64	58	53	74	64	58	53	63	57	53		62	57	53		61	56	53	51
9	71	60	54	49	70	60	54	49	59	53	49		58	53	49		57	52	49	47
10	67	56	50	46	66	56	50	46	55	50	46		54	49	46		54	49	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	80354
5°	81548
10°	84054
15°	87406
20°	88560
25°	84280
30°	75602
35°	60953
40°	40859
45°	20419
50°	11495
55°	6923
60°	2431
65°	262
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20419 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	6.9
10°-20°	301.4	21.0
20°-30°	440.5	30.7
30°-40°	385.8	26.9
40°-50°	156.7	10.9
50°-60°	45.7	3.2
60°-70°	4.2	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°	840.7	58.7
0°-40°	1226.5	85.6
0°-60°	1428.9	99.7
0°-90°	1433.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1433.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1018	
5°	1029	99
15°	1070	301
25°	968	441
35°	632	386
45°	183	157
55°	50	46
65°	1	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1017.9
2.5°	1020.7
5°	1029.1
7.5°	1038.8
10°	1048.6
12.5°	1059.8
15°	1069.5
17.5°	1069.5
20°	1054.2
22.5°	1019.3
25°	967.6
27.5°	904.8
30°	829.4
32.5°	735.8
35°	632.5
37.5°	509.6
40°	396.5
42.5°	276.5
45°	182.9
47.5°	121.5
50°	93.6
52.5°	69.8
55°	50.3
57.5°	32.1
60°	15.4
62.5°	8.4
65°	1.4
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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