

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: P641303

Luminaire Tested: ML5612LSVWFL7597FS1E - 593BB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641303
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 - 900LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

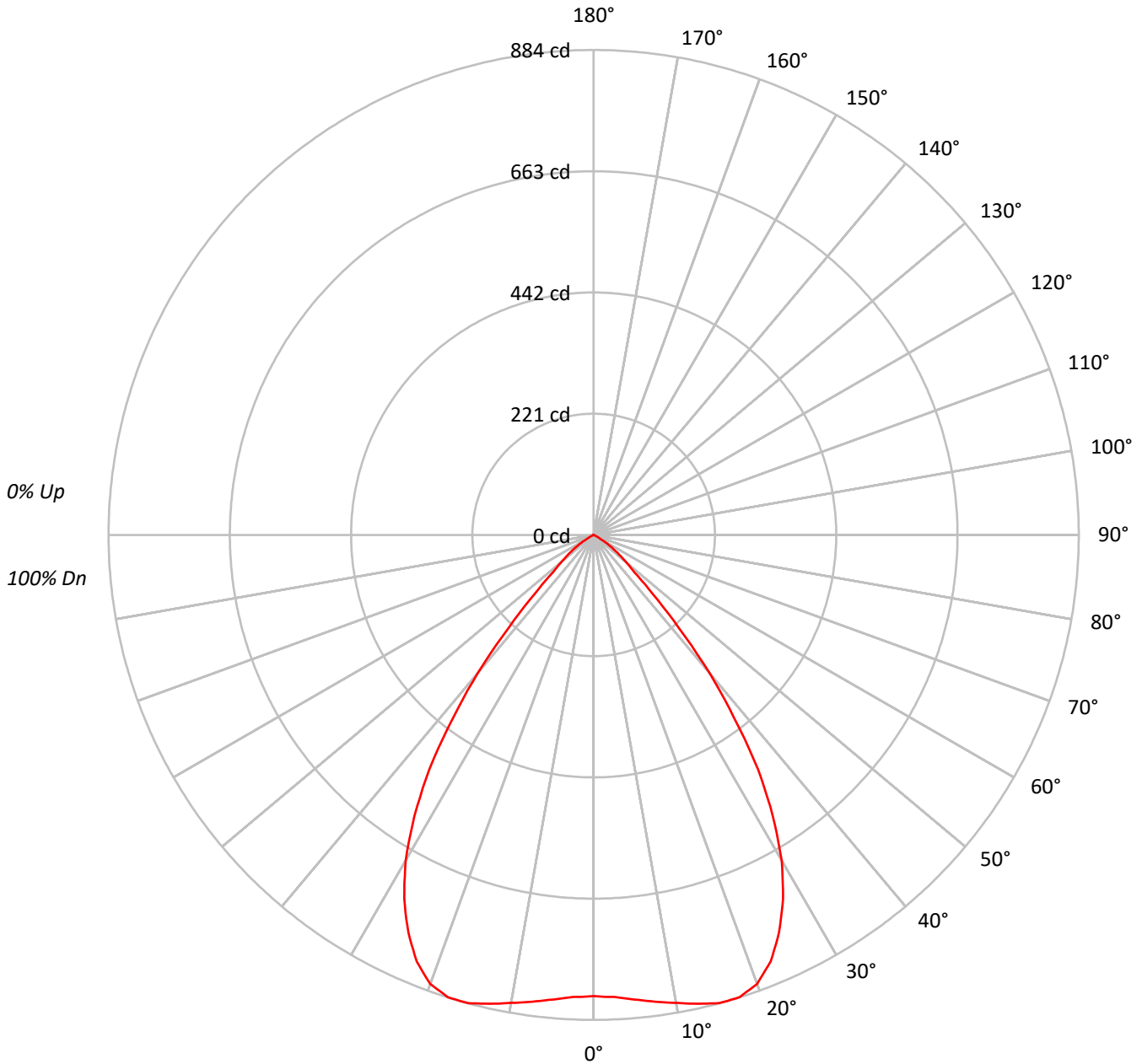
Lumens per Lamp: N/A
Luminaire Lumens: 1183.9 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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	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°	66374
5°	67364
10°	69433
15°	72205
20°	73153
25°	69620
30°	62449
35°	50353
40°	33759
45°	16869
50°	9493
55°	5712
60°	2005
65°	224
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16869 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	6.9
10°-20°	248.9	21.0
20°-30°	363.9	30.7
30°-40°	318.7	26.9
40°-50°	129.4	10.9
50°-60°	37.7	3.2
60°-70°	3.5	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°	694.5	58.7
0°-40°	1013.2	85.6
0°-60°	1180.4	99.7
0°-90°	1183.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	841	
5°	850	82
15°	884	249
25°	799	364
35°	522	319
45°	151	129
55°	42	38
65°	1	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	840.8
2.5°	843.1
5°	850.1
7.5°	858.1
10°	866.2
12.5°	875.4
15°	883.5
17.5°	883.5
20°	870.8
22.5°	842.0
25°	799.3
27.5°	747.4
30°	685.1
32.5°	607.9
35°	522.5
37.5°	421.0
40°	327.6
42.5°	228.4
45°	151.1
47.5°	100.3
50°	77.3
52.5°	57.7
55°	41.5
57.5°	26.5
60°	12.7
62.5°	6.9
65°	1.2
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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(END OF REPORT)