

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: P641300

Luminaire Tested: ML5612LSVWFL7597FS1E - 593BB - 600LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641300
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 - 600LM - 5000K
Description: ML56 RR, 75D TIR OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

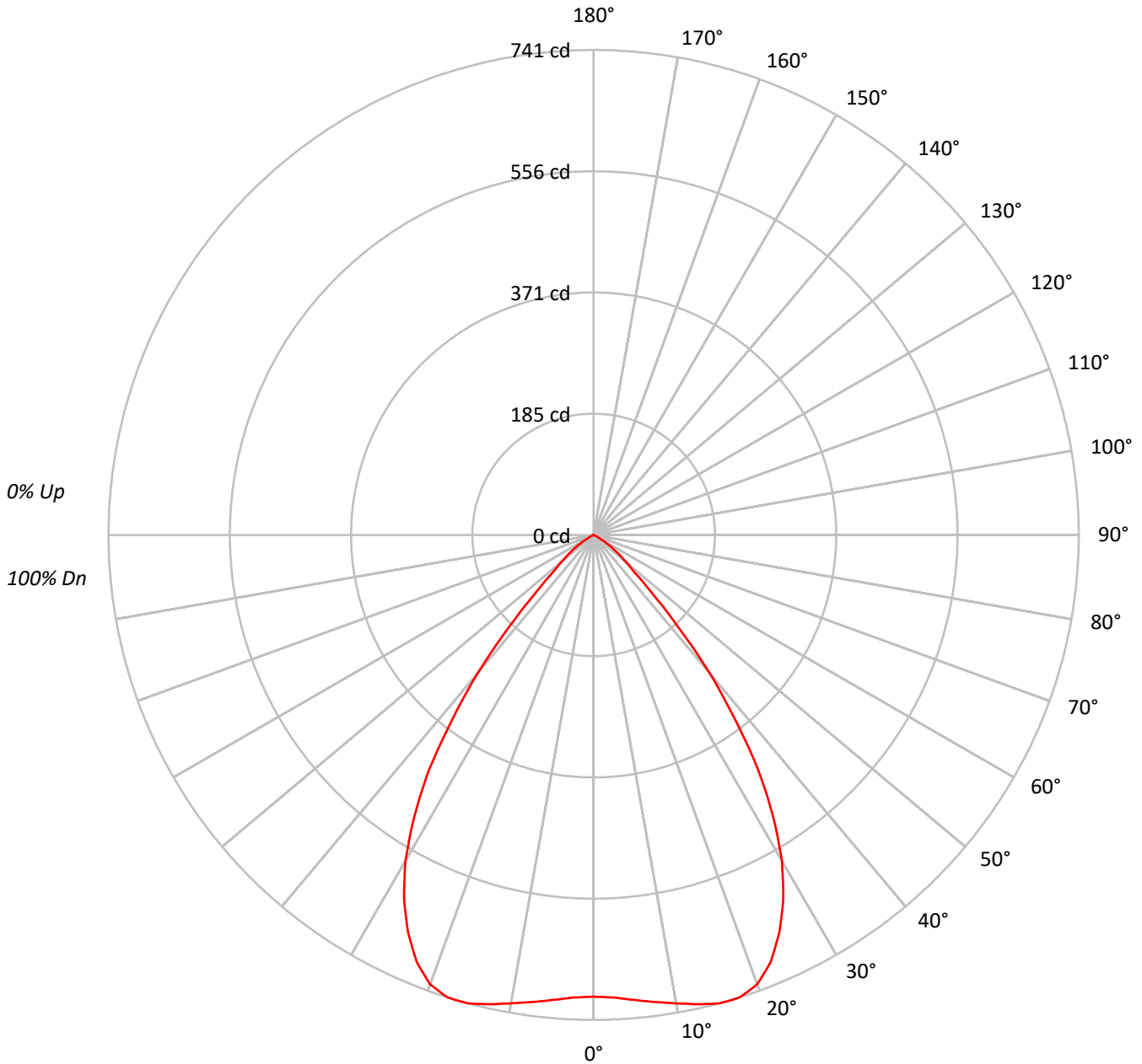
Lumens per Lamp: N/A
Luminaire Lumens: 993.2 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (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																		
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	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	99	97	97	95	94	92	92	92	92	100																
	1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92	92	92	92	92	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	85	85	85	85	85	85	85	85																
	3	101	94	88	84	99	92	87	83	90	85	82	87	83	81	85	82	79	78	78	78	78	78	78	78	78	78	78	78	78																
	4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71	71	71	71	71	71	71	71	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	65	65	65	65	65	65	65	65																
	6	84	74	68	63	83	74	67	63	72	66	62	71	66	62	69	65	61	60	60	60	60	60	60	60	60	60	60	60	60																
	7	79	69	63	58	78	68	62	58	67	62	57	66	61	57	65	60	57	55	55	55	55	55	55	55	55	55	55	55	55																
	8	75	64	58	53	74	64	58	53	63	57	53	62	57	53	61	56	53	51	51	51	51	51	51	51	51	51	51	51	51																
	9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47	47	47	47	47	47	47	47	47	47	47	47																
	10	67	56	50	46	66	56	50	46	55	50	46	54	49	46	54	49	45	44	44	44	44	44	44	44	44	44	44	44	44																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55685
5°	56516
10°	58251
15°	60575
20°	61376
25°	58410
30°	52395
35°	42248
40°	28318
45°	14156
50°	7958
55°	4789
60°	1674
65°	187
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14156 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	6.9
10°-20°	208.9	21.0
20°-30°	305.3	30.7
30°-40°	267.4	26.9
40°-50°	108.6	10.9
50°-60°	31.7	3.2
60°-70°	2.9	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°	582.7	58.7
0°-40°	850.1	85.6
0°-60°	990.3	99.7
0°-90°	993.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	993.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	705	
5°	713	69
15°	741	209
25°	671	305
35°	438	267
45°	127	109
55°	35	32
65°	1	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	705.4
2.5°	707.4
5°	713.2
7.5°	720.0
10°	726.7
12.5°	734.5
15°	741.2
17.5°	741.2
20°	730.6
22.5°	706.4
25°	670.6
27.5°	627.1
30°	574.8
32.5°	510.0
35°	438.4
37.5°	353.2
40°	274.8
42.5°	191.6
45°	126.8
47.5°	84.2
50°	64.8
52.5°	48.4
55°	34.8
57.5°	22.3
60°	10.6
62.5°	5.8
65°	1.0
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)