

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P640449

Luminaire Tested: ML5609LSVWFLD2W1E - 593TBZB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-100)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFLD2W1E - 593TBZB - 900LM - 2700K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

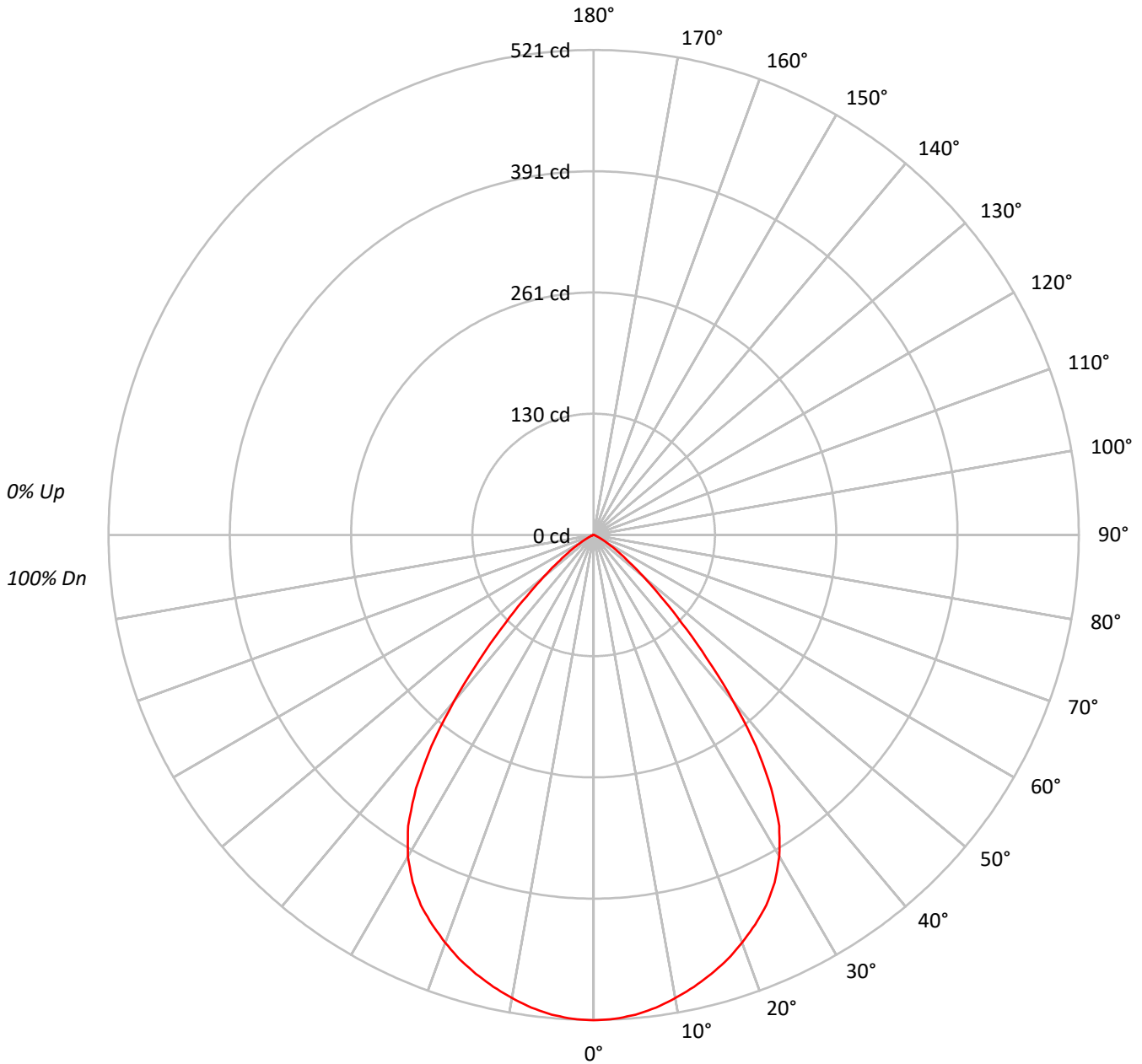
Lumens per Lamp: N/A
Luminaire Lumens: 737.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.12
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 11.8
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									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																											
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92																											
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84																											
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																											
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69																											
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63																											
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	62	59	57																											
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53																											
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	53	50	48																											
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45																											
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41160
5°	41000
10°	40504
15°	39898
20°	39156
25°	38238
30°	36352
35°	32043
40°	24021
45°	14915
50°	8511
55°	4569
60°	2226
65°	934
70°	462
75°	305
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14915 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	6.6
10°-20°	137.6	18.7
20°-30°	201.1	27.3
30°-40°	203.0	27.5
40°-50°	107.1	14.5
50°-60°	32.1	4.4
60°-70°	6.1	0.8
70°-80°	1.1	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°	387.7	52.6
0°-40°	590.7	80.1
0°-60°	729.8	99.0
0°-90°	737.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	737.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	521	
5°	517	49
15°	488	138
25°	439	201
35°	332	203
45°	134	107
55°	33	32
65°	5	6
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	521.4
2.5°	520.4
5°	517.4
7.5°	512.3
10°	505.3
12.5°	497.3
15°	488.2
17.5°	478.2
20°	466.1
22.5°	453.1
25°	439.0
27.5°	420.9
30°	398.8
32.5°	370.7
35°	332.5
37.5°	286.3
40°	233.1
42.5°	179.8
45°	133.6
47.5°	97.4
50°	69.3
52.5°	48.2
55°	33.2
57.5°	22.1
60°	14.1
62.5°	9.0
65°	5.0
67.5°	3.0
70°	2.0
72.5°	1.0
75°	1.0
77.5°	1.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)