

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: P641191

Luminaire Tested: ML5612LSNFL2597FS1E - 694TBZB - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 694TBZB - 600LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 929.5 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

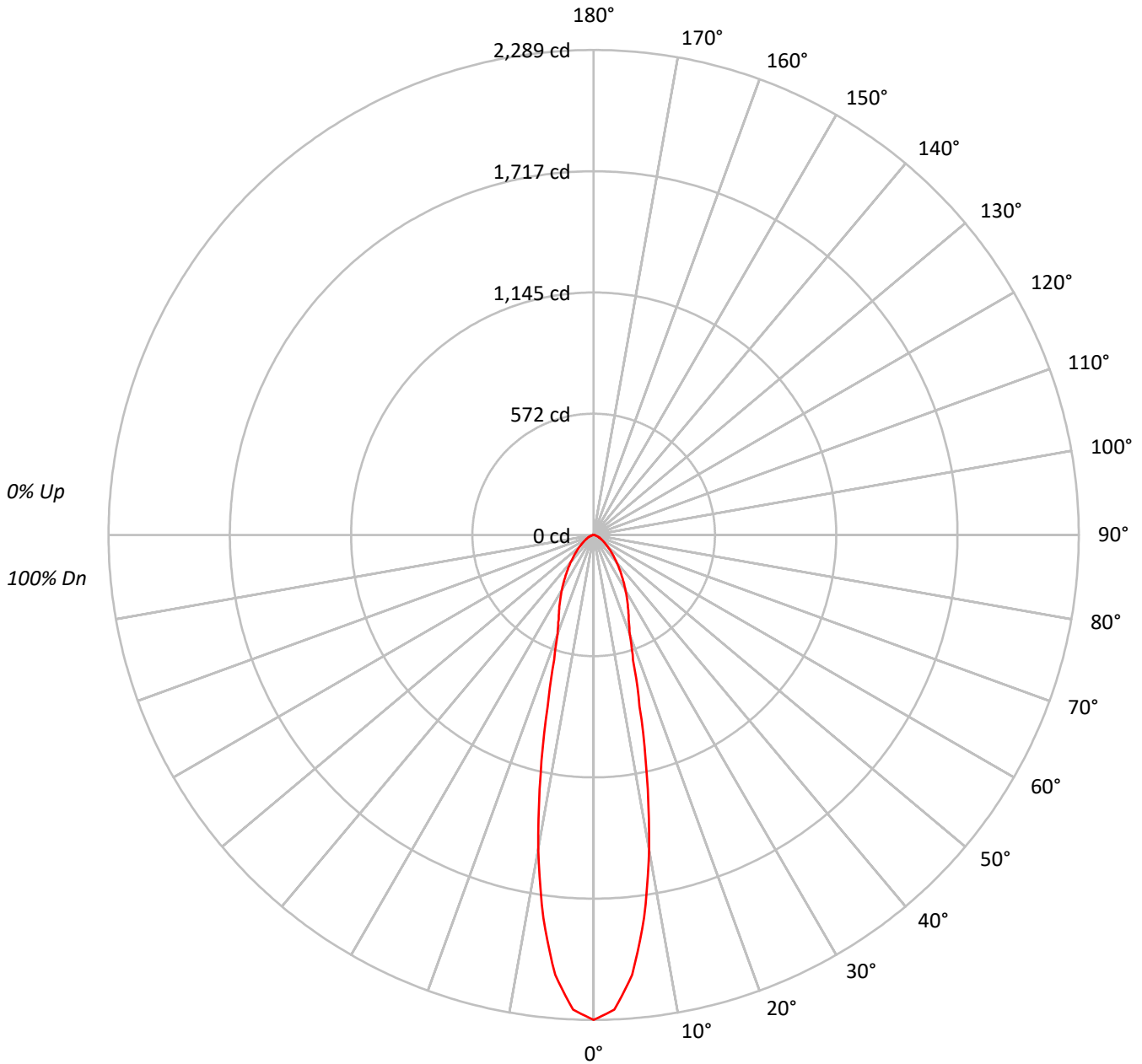
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93			93	
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85	
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79			79	
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73			73	
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68			68	
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64			64	
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	61	60			60	
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57			57	
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54			54	
10	72	63	57	53	71	62	57	53	62	56	53	61	56	53	60	56	53	51			51	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	125483
5°	114682
10°	83760
15°	47503
20°	28983
25°	23257
30°	18952
35°	15198
40°	12051
45°	9427
50°	7326
55°	5773
60°	4572
65°	3749
70°	2725
75°	1631
80°	821
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9427 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	19.4
10°-20°	241.1	25.9
20°-30°	177.4	19.1
30°-40°	142.8	15.4
40°-50°	94.9	10.2
50°-60°	55.0	5.9
60°-70°	28.9	3.1
70°-80°	8.6	0.9
80°-90°	0.8	0.1
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°	598.5	64.4
0°-40°	741.3	79.8
0°-60°	891.2	95.9
0°-90°	929.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	929.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2289	
5°	2084	180
15°	837	241
25°	384	177
35°	227	143
45°	122	95
55°	60	55
65°	29	29
75°	8	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2289.0
2.5°	2243.0
5°	2084.0
7.5°	1822.8
10°	1504.7
12.5°	1156.8
15°	837.0
17.5°	618.4
20°	496.8
22.5°	432.1
25°	384.5
27.5°	341.1
30°	299.4
32.5°	262.0
35°	227.1
37.5°	196.5
40°	168.4
42.5°	142.9
45°	121.6
47.5°	102.9
50°	85.9
52.5°	72.3
55°	60.4
57.5°	50.2
60°	41.7
62.5°	34.9
65°	28.9
67.5°	23.8
70°	17.0
72.5°	11.1
75°	7.7
77.5°	4.3
80°	2.6
82.5°	1.7
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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