

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: P641974

Luminaire Tested: ML5612LSWFL5597FS1E - 592W - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 592W - 600LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1084.7 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

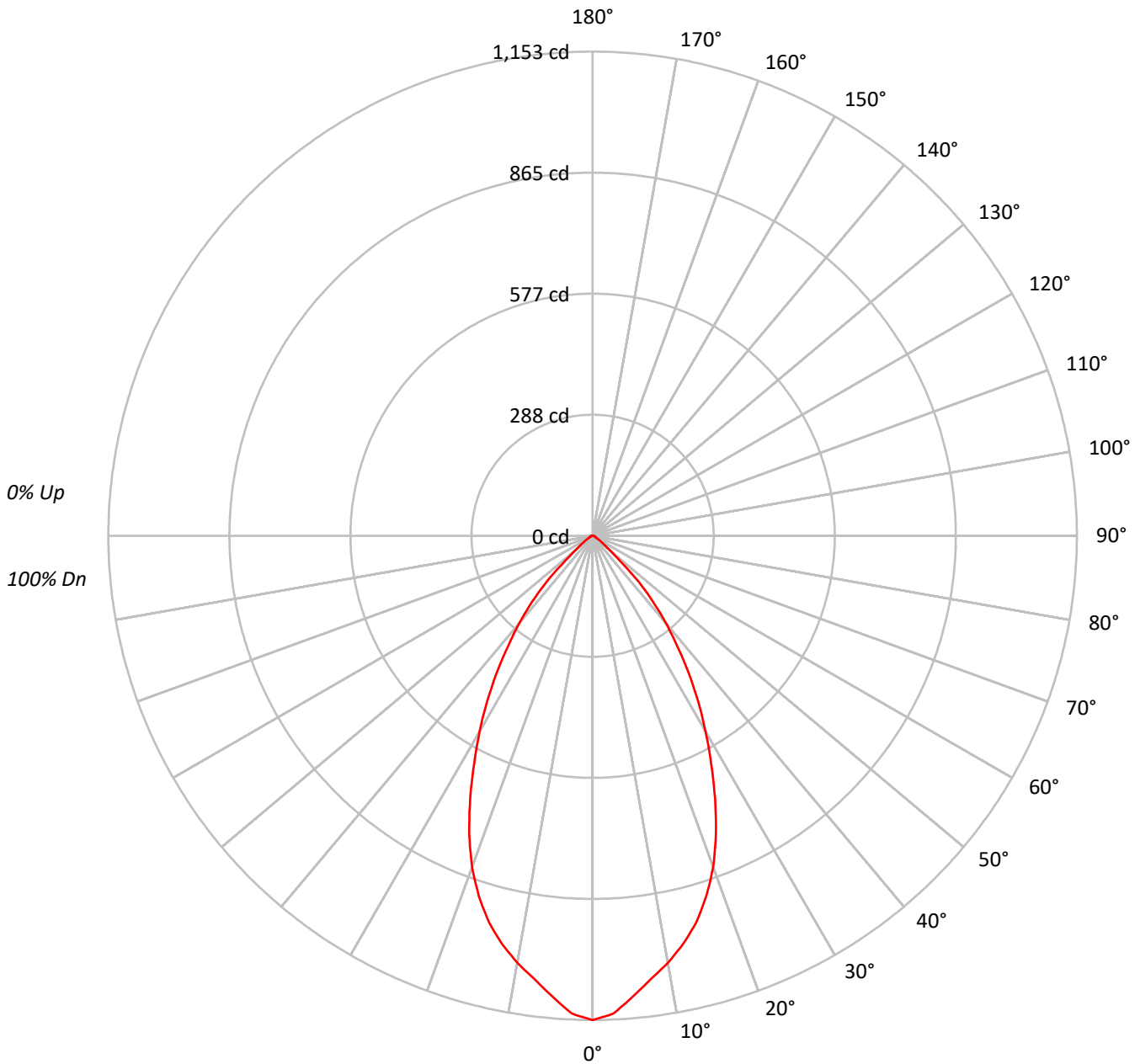
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93
2	107	102	98	94	105	100	96	93	97	94	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	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72			72
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67			67
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	91050
5°	87262
10°	82764
15°	77909
20°	70499
25°	60039
30°	48995
35°	38297
40°	27896
45°	17271
50°	6288
55°	3331
60°	1674
65°	1270
70°	1339
75°	1190
80°	1318
85°	906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17271 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	9.5
10°-20°	265.5	24.5
20°-30°	314.8	29.0
30°-40°	247.8	22.8
40°-50°	116.7	10.8
50°-60°	23.7	2.2
60°-70°	7.3	0.7
70°-80°	4.5	0.4
80°-90°	1.5	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°	683.2	63.0
0°-40°	931.1	85.8
0°-60°	1071.5	98.8
0°-90°	1084.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1084.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1153	
5°	1101	103
15°	953	265
25°	689	315
35°	397	248
45°	155	117
55°	24	24
65°	7	7
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1153.4
2.5°	1138.9
5°	1101.2
7.5°	1064.4
10°	1032.5
12.5°	995.8
15°	953.3
17.5°	900.1
20°	839.2
22.5°	767.6
25°	689.3
27.5°	611.0
30°	537.5
32.5°	467.0
35°	397.4
37.5°	330.6
40°	270.7
42.5°	212.7
45°	154.7
47.5°	87.0
50°	51.2
52.5°	34.8
55°	24.2
57.5°	17.4
60°	10.6
62.5°	8.7
65°	6.8
67.5°	5.8
70°	5.8
72.5°	4.8
75°	3.9
77.5°	3.9
80°	2.9
82.5°	1.9
85°	1.0
87.5°	1.0
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)