

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: P643927

Luminaire Tested: ML5615LSWFL559FS1E - 691WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 691WB - 900LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1163.3 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

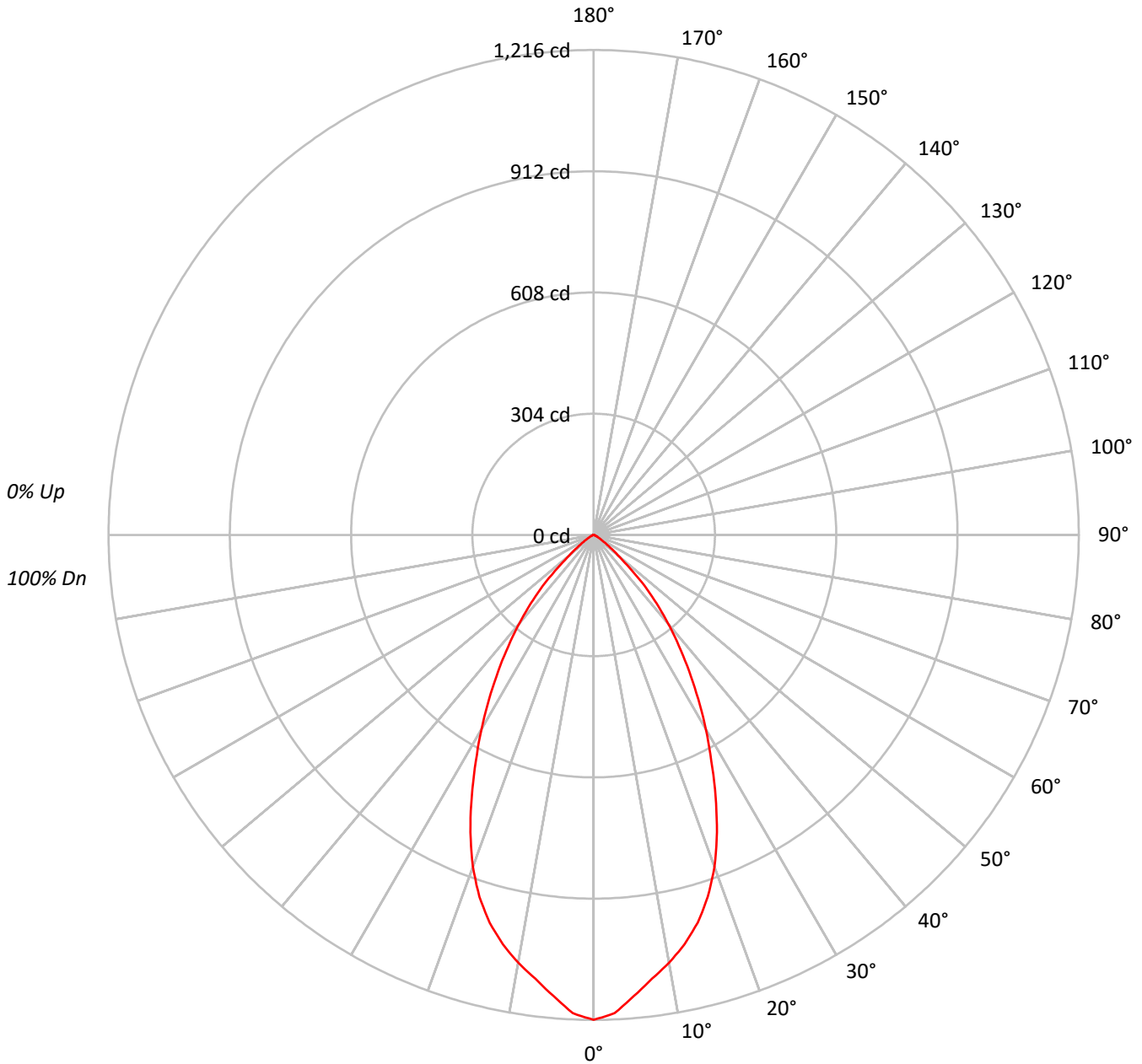
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	96	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	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78			78																
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72			72																
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66			66																
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61			61																
7	81	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57			57																
8	76	66	60	55	75	66	59	55	64	59	55	63	58	55	62	58	54	53			53																
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49			49																
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46			46																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	66656
5°	63851
10°	60637
15°	57151
20°	51670
25°	43738
30°	35619
35°	27880
40°	20760
45°	13955
50°	6755
55°	3345
60°	1688
65°	1064
70°	497
75°	445
80°	316
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13955 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	9.3
10°-20°	280.4	24.1
20°-30°	330.4	28.4
30°-40°	260.7	22.4
40°-50°	136.8	11.8
50°-60°	35.0	3.0
60°-70°	8.3	0.7
70°-80°	2.2	0.2
80°-90°	1.0	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°	719.3	61.8
0°-40°	980.0	84.2
0°-60°	1151.8	99.0
0°-90°	1163.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1163.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1216	
5°	1160	109
15°	1007	280
25°	723	330
35°	417	261
45°	180	137
55°	35	35
65°	8	8
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1215.9
2.5°	1200.4
5°	1160.3
7.5°	1122.2
10°	1089.3
12.5°	1051.3
15°	1007.0
17.5°	951.5
20°	885.7
22.5°	807.5
25°	723.1
27.5°	638.8
30°	562.7
32.5°	487.6
35°	416.6
37.5°	350.8
40°	290.1
42.5°	233.5
45°	180.0
47.5°	120.4
50°	79.2
52.5°	53.5
55°	35.0
57.5°	22.6
60°	15.4
62.5°	11.3
65°	8.2
67.5°	5.1
70°	3.1
72.5°	2.1
75°	2.1
77.5°	2.1
80°	1.0
82.5°	1.0
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)