

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: P640391

Luminaire Tested: ML5609LSVWFL75D2W1E - 591WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 591WB - 900LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

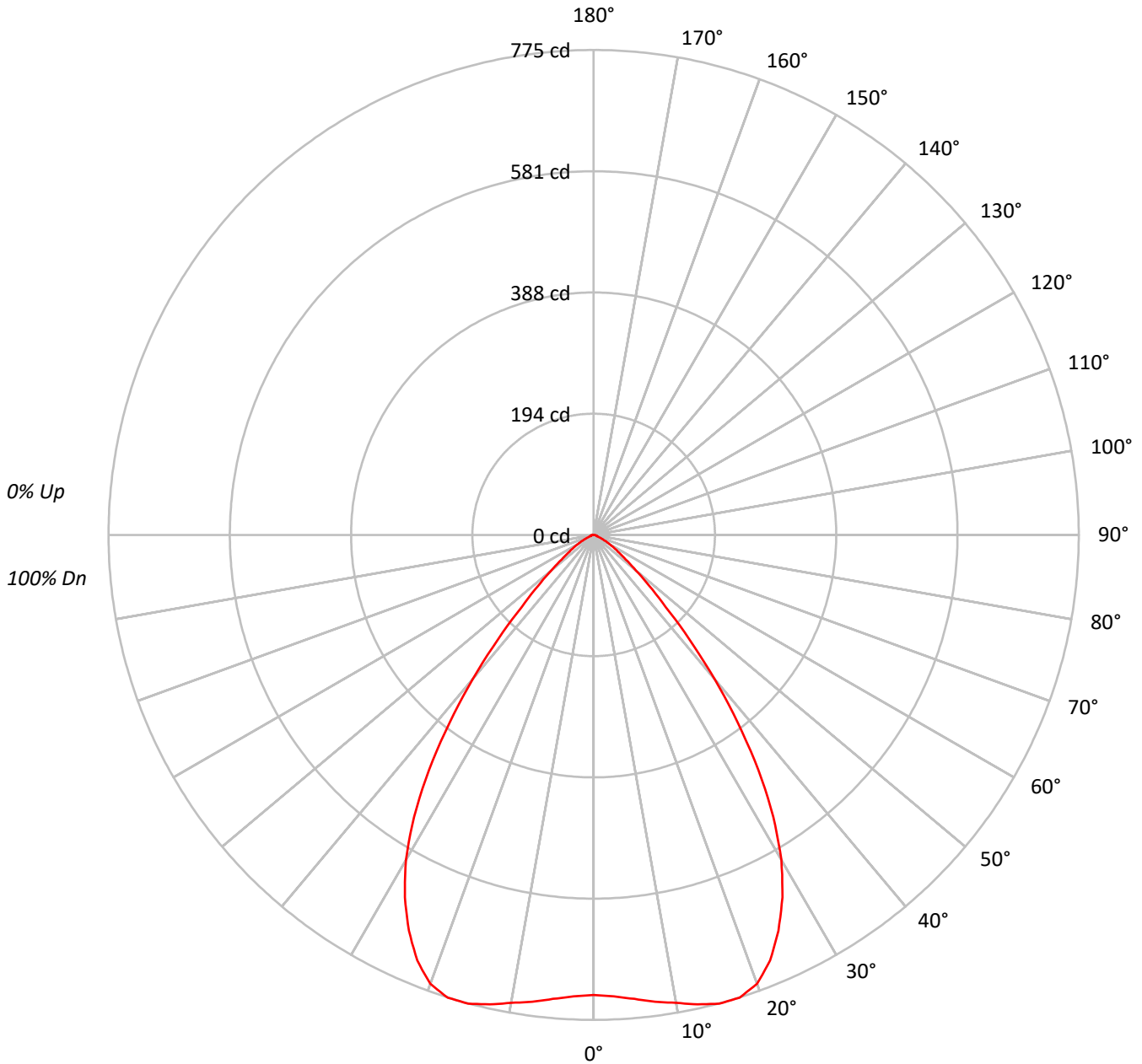
Lumens per Lamp: N/A
Luminaire Lumens: 1092.5 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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			
1	113	110	107	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92			
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			
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	82	77	73	80	75	72	78	74	71	69			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40304
5°	40959
10°	42267
15°	44007
20°	44530
25°	42226
30°	37955
35°	30718
40°	21490
45°	12614
50°	7539
55°	4702
60°	3191
65°	1829
70°	962
75°	847
80°	947
85°	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12614 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	6.5
10°-20°	218.4	20.0
20°-30°	318.1	29.1
30°-40°	282.2	25.8
40°-50°	133.6	12.2
50°-60°	46.7	4.3
60°-70°	15.2	1.4
70°-80°	4.6	0.4
80°-90°	2.0	0.2
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°	608.1	55.7
0°-40°	890.4	81.5
0°-60°	1070.7	98.0
0°-90°	1092.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1092.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	735	
5°	744	72
15°	775	218
25°	698	318
35°	459	282
45°	163	134
55°	49	47
65°	14	15
75°	4	5
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	735.2
2.5°	738.2
5°	744.3
7.5°	752.3
10°	759.3
12.5°	768.4
15°	775.4
17.5°	775.4
20°	763.3
22.5°	736.2
25°	698.1
27.5°	652.9
30°	599.6
32.5°	534.3
35°	459.0
37.5°	377.7
40°	300.3
42.5°	225.0
45°	162.7
47.5°	119.5
50°	88.4
52.5°	64.3
55°	49.2
57.5°	38.2
60°	29.1
62.5°	21.1
65°	14.1
67.5°	9.0
70°	6.0
72.5°	5.0
75°	4.0
77.5°	4.0
80°	3.0
82.5°	3.0
85°	2.0
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)