

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: P642710

Luminaire Tested: ML5615LSNFL259FS1E - 591WB - 1500LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 591WB - 1500LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

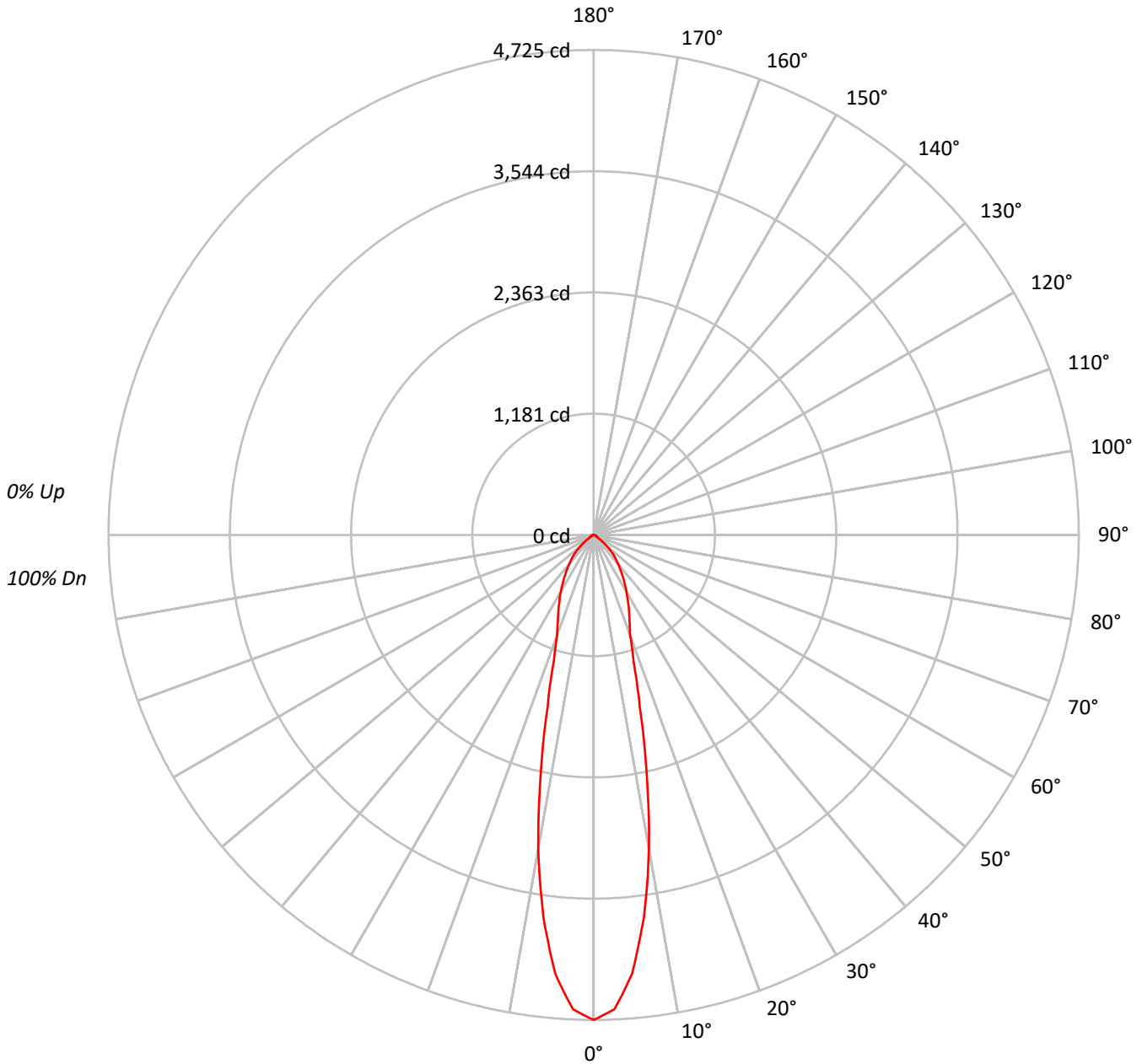
Lumens per Lamp: N/A
Luminaire Lumens: 1878.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
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	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	104	104	102	101	100	99	98	97	96	95	93				93															
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86				86															
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80				80															
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75				75															
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70				70															
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66				66															
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62				62															
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58				58															
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56				56															
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53				53															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	372996
5°	340077
10°	248861
15°	141680
20°	87233
25°	70875
30°	58374
35°	47394
40°	38283
45°	30612
50°	19981
55°	8767
60°	5589
65°	4950
70°	4501
75°	4331
80°	4819
85°	4800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 30612 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.9	19.8
10°-20°	499.1	26.6
20°-30°	374.8	20.0
30°-40°	309.0	16.5
40°-50°	206.0	11.0
50°-60°	69.9	3.7
60°-70°	26.9	1.4
70°-80°	15.2	0.8
80°-90°	6.2	0.3
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°	1244.8	66.3
0°-40°	1553.8	82.7
0°-60°	1829.7	97.4
0°-90°	1878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1878.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4725	
5°	4292	371
15°	1734	499
25°	814	375
35°	492	309
45°	274	206
55°	64	70
65°	26	27
75°	14	15
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4725.0
2.5°	4627.7
5°	4291.6
7.5°	3752.1
10°	3104.6
12.5°	2382.9
15°	1733.6
17.5°	1286.1
20°	1038.4
22.5°	909.3
25°	813.7
27.5°	721.8
30°	640.4
32.5°	562.5
35°	491.8
37.5°	428.1
40°	371.5
42.5°	320.2
45°	274.2
47.5°	214.1
50°	162.7
52.5°	111.4
55°	63.7
57.5°	42.5
60°	35.4
62.5°	31.8
65°	26.5
67.5°	23.0
70°	19.5
72.5°	15.9
75°	14.2
77.5°	12.4
80°	10.6
82.5°	8.8
85°	5.3
87.5°	3.5
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)