

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: P642751

Luminaire Tested: ML5615LSNFL259FS1E - 592W - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 592W - 1500LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

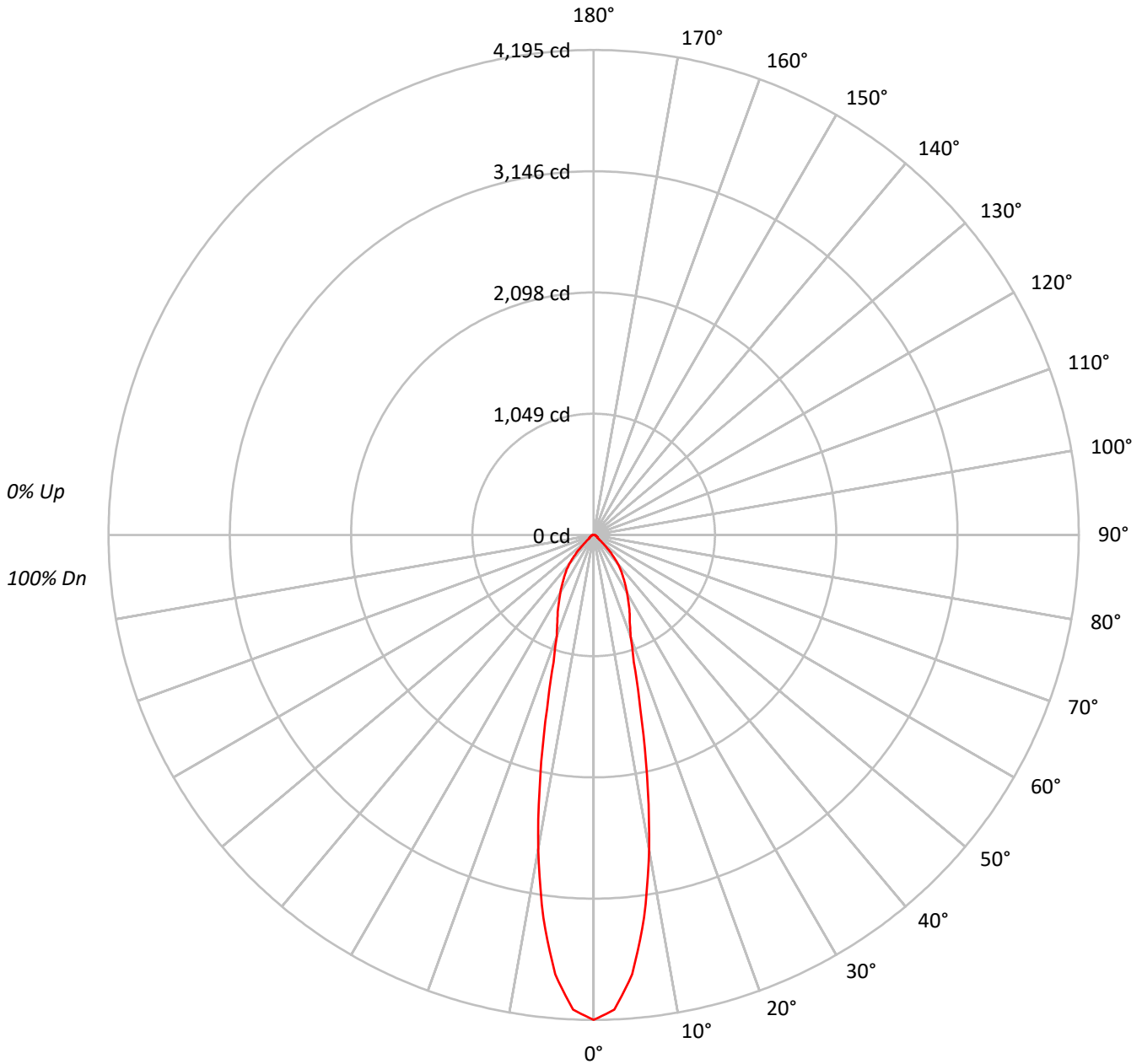
Lumens per Lamp: N/A
Luminaire Lumens: 1625.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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				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	100	100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86	86	86	86
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81	81	81	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75	75	75	75
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71	71	71	71
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67	67	67	67
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63	63	63	63
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60	60	60	60
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57	57	57	57
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54	54	54	54

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	331141
5°	302350
10°	221342
15°	127067
20°	78236
25°	63924
30°	52440
35°	42701
40°	33646
45°	20832
50°	7823
55°	5987
60°	5652
65°	5230
70°	5032
75°	5216
80°	4955
85°	4257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20832 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.9	20.3
10°-20°	446.3	27.5
20°-30°	337.2	20.8
30°-40°	277.8	17.1
40°-50°	142.1	8.7
50°-60°	40.6	2.5
60°-70°	27.9	1.7
70°-80°	17.8	1.1
80°-90°	5.3	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°	1113.4	68.5
0°-40°	1391.2	85.6
0°-60°	1573.9	96.9
0°-90°	1625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1625.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4195	
5°	3816	330
15°	1555	446
25°	734	337
35°	443	278
45°	187	142
55°	44	41
65°	28	28
75°	17	18
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4194.8
2.5°	4110.9
5°	3815.5
7.5°	3339.7
10°	2761.3
12.5°	2127.0
15°	1554.8
17.5°	1152.1
20°	931.3
22.5°	817.8
25°	733.9
27.5°	649.9
30°	575.3
32.5°	506.9
35°	443.1
37.5°	387.1
40°	326.5
42.5°	251.9
45°	186.6
47.5°	115.1
50°	63.7
52.5°	49.8
55°	43.5
57.5°	38.9
60°	35.8
62.5°	31.1
65°	28.0
67.5°	24.9
70°	21.8
72.5°	20.2
75°	17.1
77.5°	14.0
80°	10.9
82.5°	7.8
85°	4.7
87.5°	1.6
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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