

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: P641014

Luminaire Tested: ML5612LSNFL2597FS1E - 594SNB - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 594SNB - 600LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

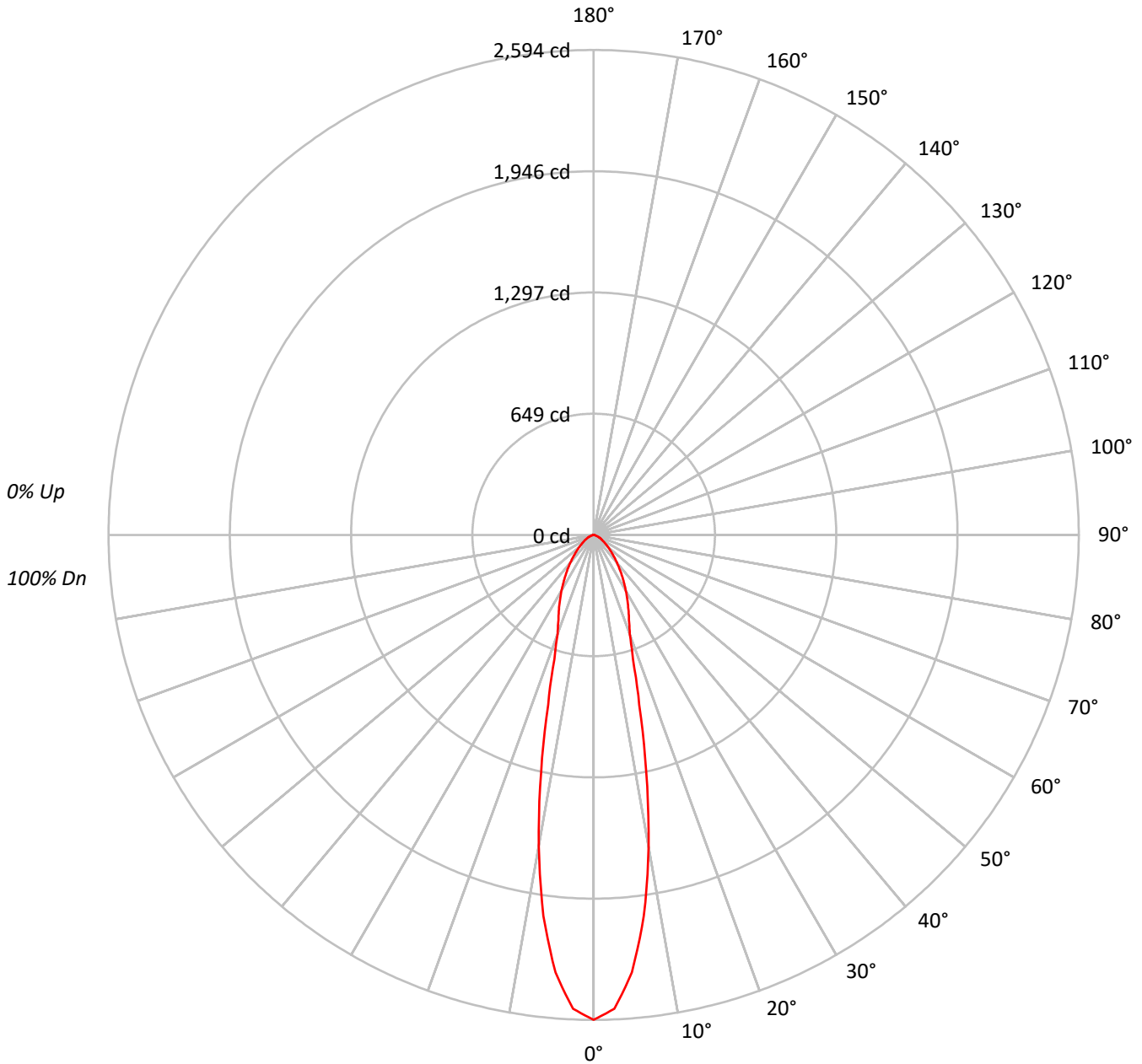
Lumens per Lamp: N/A
Luminaire Lumens: 1056.6 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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									
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																			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73																			
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68																			
6	86	77	71	67	85	76	71	66	75	70	66	74	69	66	72	68	65	64																			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54																			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	55	52	51																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	204757
5°	186085
10°	135613
15°	76879
20°	47271
25°	38229
30°	31284
35°	25152
40°	19930
45°	15652
50°	12232
55°	9579
60°	7626
65°	6145
70°	4455
75°	2349
80°	1318
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15652 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.0	19.2
10°-20°	271.1	25.7
20°-30°	202.4	19.2
30°-40°	163.7	15.5
40°-50°	109.3	10.3
50°-60°	63.4	6.0
60°-70°	33.2	3.1
70°-80°	9.5	0.9
80°-90°	0.9	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°	676.5	64.0
0°-40°	840.3	79.5
0°-60°	1013.0	95.9
0°-90°	1056.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1056.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2594	
5°	2348	203
15°	941	271
25°	439	202
35°	261	164
45°	140	109
55°	70	63
65°	33	33
75°	8	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2593.8
2.5°	2536.8
5°	2348.3
7.5°	2056.3
10°	1691.8
12.5°	1296.4
15°	940.7
17.5°	697.0
20°	562.7
22.5°	493.0
25°	438.9
27.5°	389.6
30°	343.2
32.5°	299.7
35°	261.0
37.5°	225.3
40°	193.4
42.5°	165.3
45°	140.2
47.5°	117.9
50°	99.6
52.5°	83.1
55°	69.6
57.5°	58.0
60°	48.3
62.5°	40.6
65°	32.9
67.5°	27.1
70°	19.3
72.5°	12.6
75°	7.7
77.5°	4.8
80°	2.9
82.5°	1.9
85°	0.0
87.5°	0.0
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)