

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P640316

Luminaire Tested: ML5609LSFL40D2W1E - 594SNB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640316
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSFL40D2W1E - 594SNB - 900LM - 3000K
Description: ML56 RR, 40D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

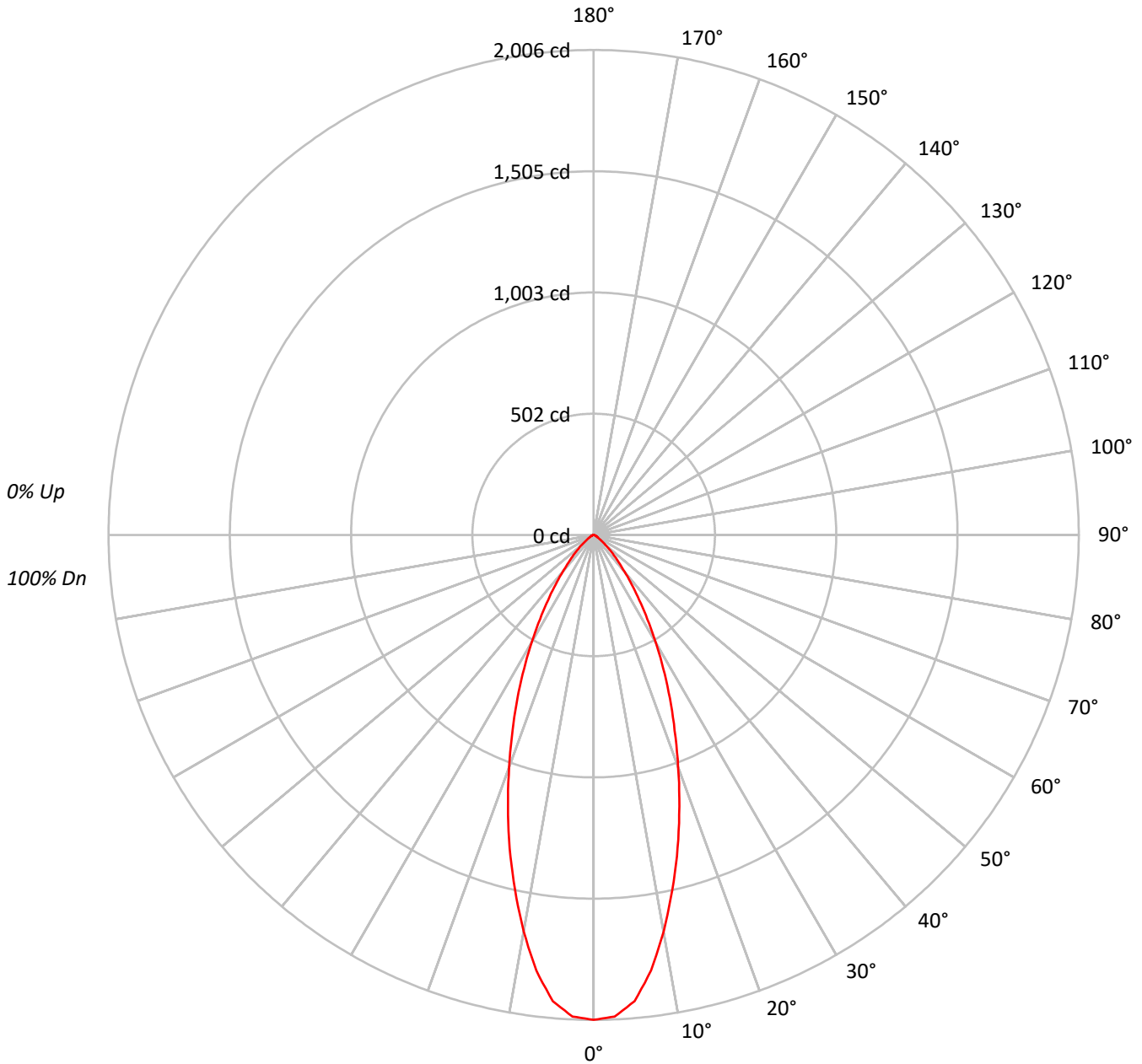
Lumens per Lamp: N/A
Luminaire Lumens: 1237.4 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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									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	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	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	93	93	93	93	93	93	93	93	93	93	93	93	93															
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87	87	87	87	87	87	87	87	87	87	87	87	87															
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83	81	81	81	81	81	81	81	81	81	81	81	81	81															
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76	76	76	76	76	76	76	76	76	76	76	76	76															
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	79	75	72	71	71	71	71	71	71	71	71	71	71	71	71	71															
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66	66	66	66	66	66	66	66	66	66	66	66	66															
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62	62	62	62	62	62	62	62	62	62	62	62	62															
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59	59	59	59	59	59	59	59	59	59	59	59	59															
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56	56	56	56	56	56	56	56	56	56	56	56	56															
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53	53	53	53	53	53	53	53	53	53	53	53	53															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	158340
5°	153398
10°	133496
15°	109610
20°	85788
25°	64934
30°	46643
35°	31667
40°	20425
45°	13229
50°	7676
55°	4294
60°	2889
65°	2017
70°	1500
75°	1312
80°	1000
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13229 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	14.2
10°-20°	370.8	30.0
20°-30°	341.3	27.6
30°-40°	208.8	16.9
40°-50°	93.3	7.5
50°-60°	30.9	2.5
60°-70°	11.6	0.9
70°-80°	4.3	0.3
80°-90°	0.6	0.0
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°	888.0	71.8
0°-40°	1096.8	88.6
0°-60°	1221.0	98.7
0°-90°	1237.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1237.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2006	
5°	1936	176
15°	1341	371
25°	746	341
35°	329	209
45°	118	93
55°	31	31
65°	11	12
75°	4	4
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2005.8
2.5°	1994.0
5°	1935.8
7.5°	1817.3
10°	1665.4
12.5°	1502.8
15°	1341.2
17.5°	1177.4
20°	1021.2
22.5°	874.7
25°	745.5
27.5°	622.6
30°	511.7
32.5°	412.6
35°	328.6
37.5°	257.5
40°	198.2
42.5°	153.0
45°	118.5
47.5°	87.3
50°	62.5
52.5°	44.2
55°	31.2
57.5°	23.7
60°	18.3
62.5°	15.1
65°	10.8
67.5°	8.6
70°	6.5
72.5°	5.4
75°	4.3
77.5°	2.2
80°	2.2
82.5°	1.1
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)