

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: PORTFOLIO

Report Number: P749118

Luminaire Tested: LD4D50D010-EU4DR3040509030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR3040509030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4664.1 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

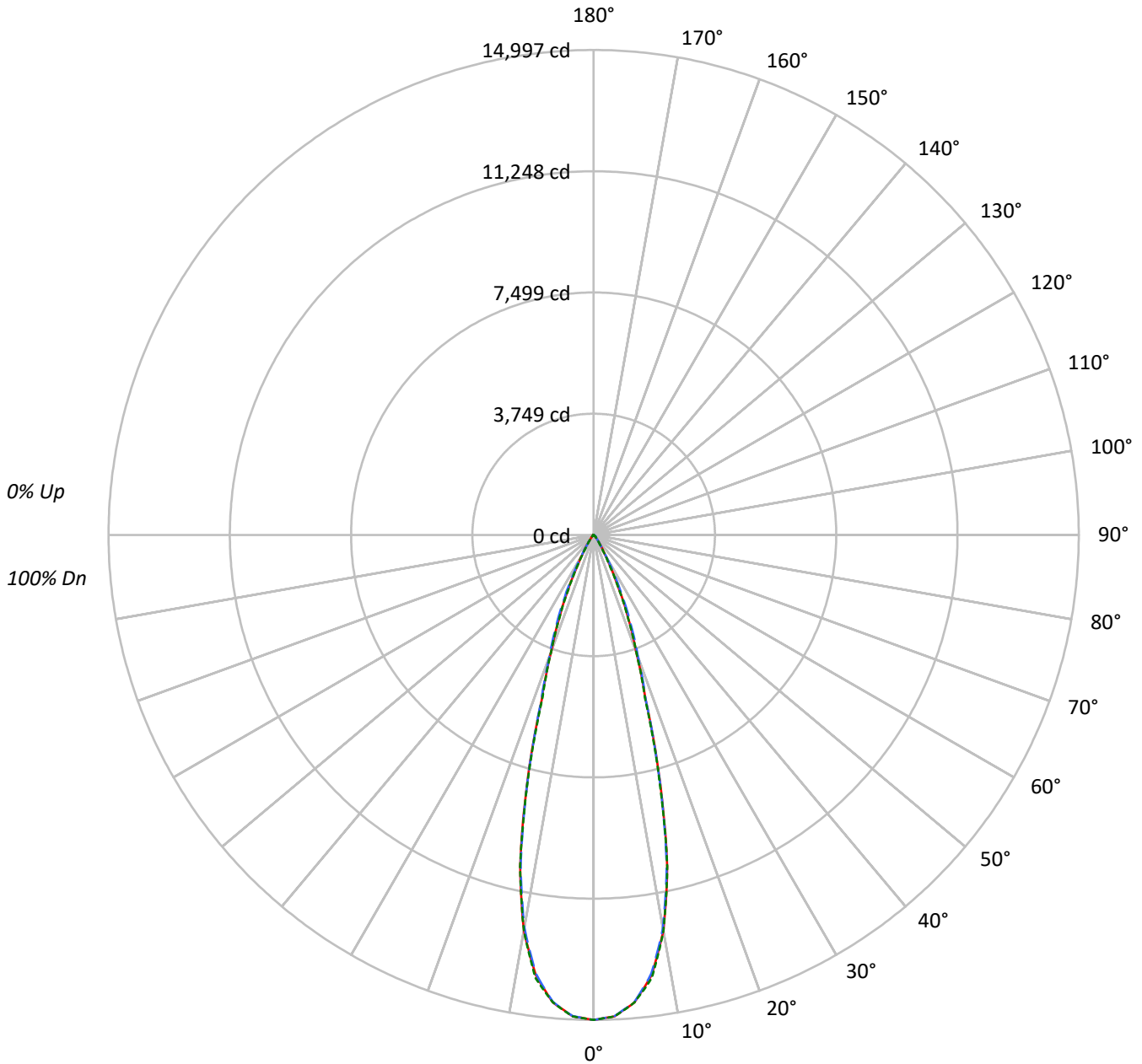
Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1147952	1147952	1147952
5°	1114995	1113696	1115056
10°	965754	958946	965529
15°	630105	626721	623575
20°	313320	325082	312904
25°	157832	177983	154597
30°	63195	68852	55055
35°	29313	28070	23529
40°	12650	14049	11920
45°	8931	11074	9006
50°	3072	8062	3239
55°	1775	3336	1868
60°	1240	1470	1240
65°	797	797	797
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11074 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1318.8	28.3
10°-20°	2123.9	45.5
20°-30°	917.8	19.7
30°-40°	209.2	4.5
40°-50°	71.8	1.5
50°-60°	17.5	0.4
60°-70°	4.5	0.1
70°-80°	0.5	0.0
80°-90°	0.0	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°	4360.5	93.5
0°-40°	4569.7	98.0
0°-60°	4659.1	99.9
0°-90°	4664.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4664.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14997	14997	14997	14997	14997	
5°	14511	14497	14494	14525	14512	1320
15°	7952	7856	7909	7883	7869	2129
25°	1869	1940	2107	1890	1830	895
35°	314	320	300	298	252	213
45°	82	102	102	102	83	59
55°	13	14	25	15	14	13
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14997.4	14997.4	14997.4	14997.4	14997.4
2.5°	14898.0	14887.7	14893.6	14900.9	14903.9
5°	14511.4	14497.4	14494.5	14524.7	14512.2
7.5°	13731.7	13711.8	13681.6	13750.1	13814.1
10°	12425.4	12403.3	12337.8	12370.2	12422.5
12.5°	10497.0	10425.6	10424.1	10527.2	10513.2
15°	7951.5	7855.8	7908.8	7883.1	7869.1
17.5°	5347.2	5310.3	5381.0	5359.7	5267.6
20°	3846.5	3856.1	3990.9	3923.1	3841.4
22.5°	2806.9	2841.5	3001.2	2826.7	2762.7
25°	1868.8	1939.5	2107.4	1890.1	1830.5
27.5°	1149.4	1181.8	1351.9	1134.7	1102.3
30°	715.0	698.8	779.0	668.6	622.9
32.5°	469.0	448.4	474.2	425.6	388.8
35°	313.7	320.3	300.4	298.2	251.8
37.5°	195.9	225.3	198.8	212.1	162.0
40°	126.6	163.5	140.6	155.4	119.3
42.5°	103.8	125.9	115.6	123.0	106.0
45°	82.5	102.3	102.3	102.3	83.2
47.5°	45.7	68.5	87.6	70.0	48.6
50°	25.8	34.6	67.7	36.1	27.2
52.5°	17.7	19.9	46.4	20.6	18.4
55°	13.3	14.0	25.0	14.7	14.0
57.5°	10.3	11.0	13.3	11.0	10.3
60°	8.1	8.1	9.6	8.8	8.1
62.5°	5.9	5.9	6.6	5.9	5.9
65°	4.4	4.4	4.4	4.4	4.4
67.5°	2.2	2.9	2.9	2.9	2.9
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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