

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: P747534

Luminaire Tested: LD4D40BD010-EU4DR3040509024-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P747534
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: LD4D40BD010-EU4DR3040509024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3479.2 lumens
Efficiency: N/A
Efficacy: 98.8 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

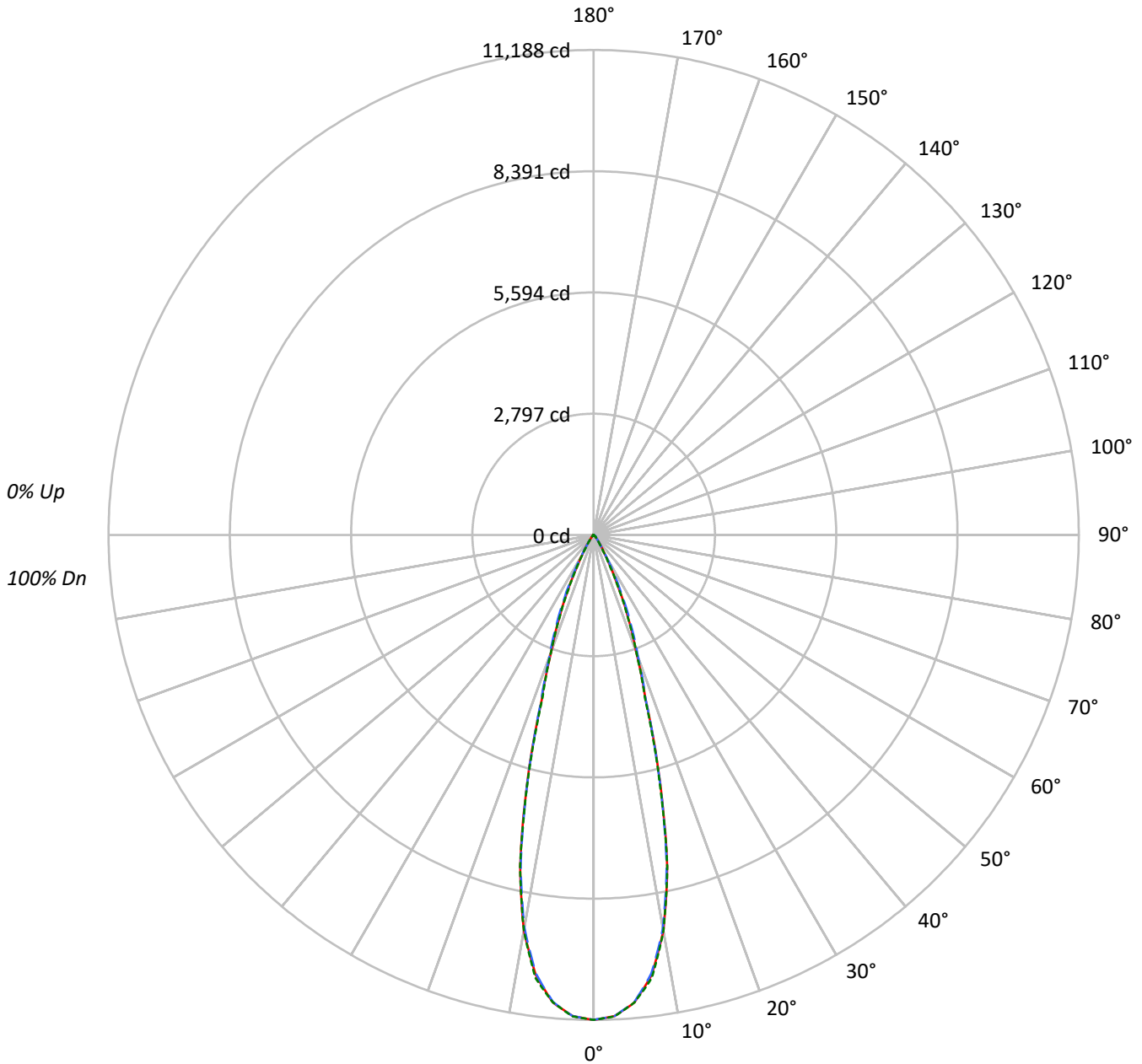
Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	856329	856329	856329
5°	831747	830779	831793
10°	720418	715342	720247
15°	470041	467513	465168
20°	233729	242494	233412
25°	117732	132765	115325
30°	47136	51360	41072
35°	21865	20940	17558
40°	9442	10482	8893
45°	6657	8259	6722
50°	2286	6014	2417
55°	1321	2496	1388
60°	919	1087	919
65°	598	598	598
70°	358	246	358
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 8259 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.8	28.3
10°-20°	1584.4	45.5
20°-30°	684.6	19.7
30°-40°	156.0	4.5
40°-50°	53.6	1.5
50°-60°	13.1	0.4
60°-70°	3.4	0.1
70°-80°	0.3	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°	3252.8	93.5
0°-40°	3408.8	98.0
0°-60°	3475.5	99.9
0°-90°	3479.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3479.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11188	11188	11188	11188	11188	
5°	10825	10815	10812	10835	10826	985
15°	5932	5860	5900	5880	5870	1588
25°	1394	1447	1572	1410	1366	667
35°	234	239	224	222	188	159
45°	62	76	76	76	62	44
55°	10	10	19	11	10	10
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	11187.5	11187.5	11187.5	11187.5	11187.5
2.5°	11113.4	11105.7	11110.1	11115.6	11117.8
5°	10825.0	10814.6	10812.4	10834.9	10825.6
7.5°	10243.3	10228.5	10206.0	10257.1	10304.9
10°	9268.9	9252.5	9203.6	9227.7	9266.7
12.5°	7830.4	7777.1	7776.0	7852.9	7842.5
15°	5931.6	5860.2	5899.7	5880.5	5870.1
17.5°	3988.8	3961.3	4014.1	3998.1	3929.5
20°	2869.4	2876.5	2977.0	2926.5	2865.5
22.5°	2093.8	2119.6	2238.8	2108.6	2060.9
25°	1394.0	1446.8	1572.0	1410.0	1365.5
27.5°	857.4	881.6	1008.5	846.4	822.3
30°	533.3	521.3	581.1	498.7	464.7
32.5°	349.9	334.5	353.7	317.5	290.0
35°	234.0	238.9	224.1	222.5	187.9
37.5°	146.1	168.1	148.3	158.2	120.8
40°	94.5	121.9	104.9	115.9	89.0
42.5°	77.4	93.9	86.2	91.7	79.1
45°	61.5	76.3	76.3	76.3	62.1
47.5°	34.1	51.1	65.4	52.2	36.3
50°	19.2	25.8	50.5	26.9	20.3
52.5°	13.2	14.8	34.6	15.4	13.7
55°	9.9	10.4	18.7	11.0	10.4
57.5°	7.7	8.2	9.9	8.2	7.7
60°	6.0	6.0	7.1	6.6	6.0
62.5°	4.4	4.4	4.9	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.6	2.2	2.2	2.2	2.2
70°	1.6	1.1	1.1	1.1	1.6
72.5°	1.1	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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