

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: P754591

Luminaire Tested: LD4D85BD010-EU4DR3070959035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754591
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: LD4D85BD010-EU4DR3070959035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7890.6 lumens
Efficiency: N/A
Efficacy: 90.0 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

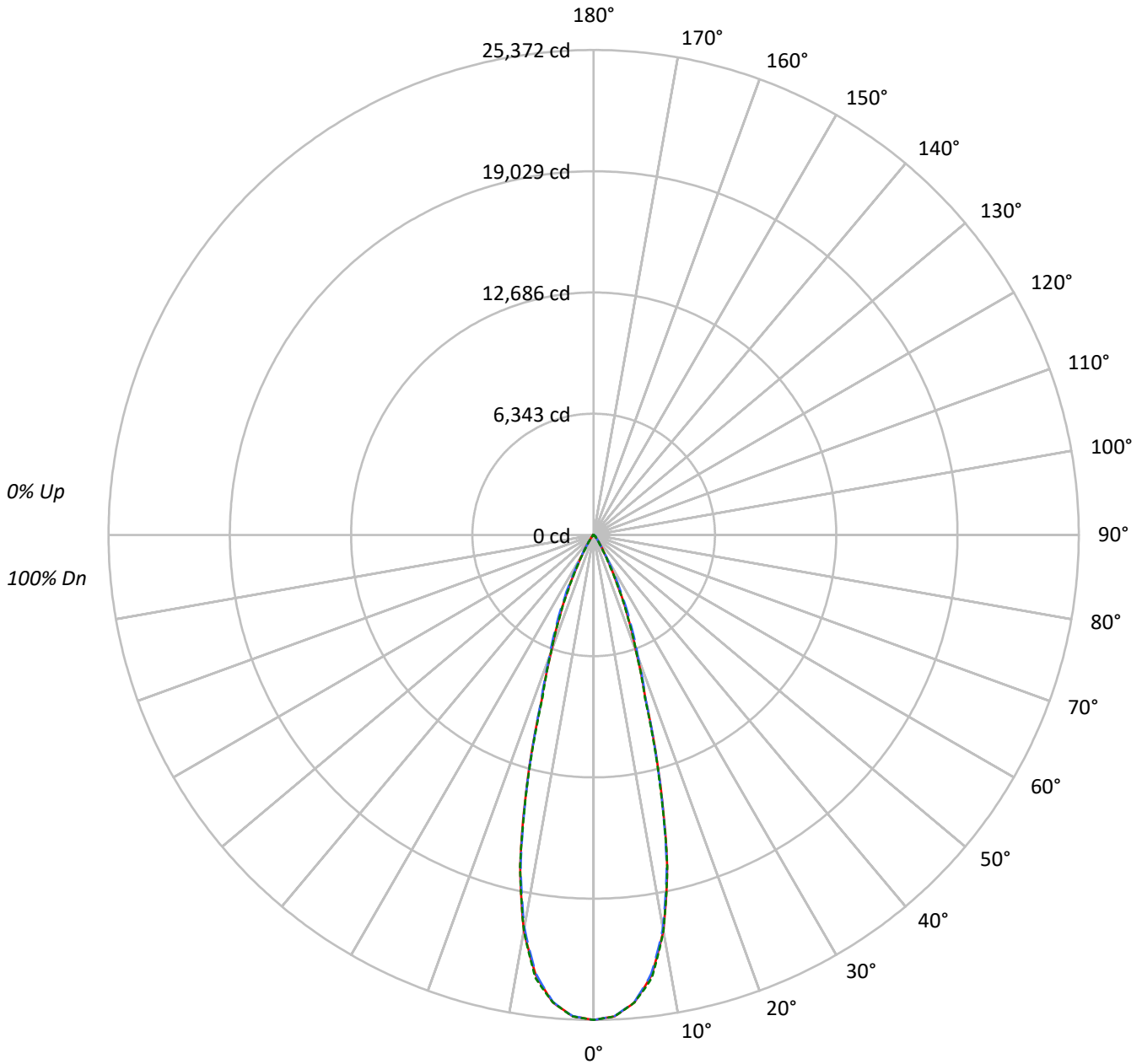
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1942067	1942067	1942067
5°	1886311	1884113	1886411
10°	1633833	1622314	1633444
15°	1065992	1060271	1054938
20°	530065	549957	529357
25°	267009	301095	261544
30°	106910	116482	93140
35°	49590	47487	39806
40°	21413	23771	20164
45°	15101	18738	15241
50°	5192	13647	5490
55°	2989	5658	3163
60°	2097	2480	2097
65°	1358	1358	1358
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18738 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2231.1	28.3
10°-20°	3593.2	45.5
20°-30°	1552.7	19.7
30°-40°	353.9	4.5
40°-50°	121.5	1.5
50°-60°	29.7	0.4
60°-70°	7.7	0.1
70°-80°	0.8	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°	7377.0	93.5
0°-40°	7730.9	98.0
0°-60°	7882.1	99.9
0°-90°	7890.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7890.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25372	25372	25372	25372	25372	
5°	24550	24526	24521	24572	24551	2233
15°	13452	13290	13380	13336	13313	3602
25°	3162	3281	3565	3198	3097	1513
35°	531	542	508	504	426	360
45°	140	173	173	173	141	99
55°	22	24	42	25	24	22
65°	8	8	8	8	8	7
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25372.1	25372.1	25372.1	25372.1	25372.1
2.5°	25203.9	25186.5	25196.4	25208.9	25213.9
5°	24549.9	24526.2	24521.3	24572.3	24551.2
7.5°	23230.7	23197.1	23146.0	23261.9	23370.2
10°	21020.9	20983.5	20872.7	20927.5	21015.9
12.5°	17758.4	17637.6	17635.1	17809.5	17785.9
15°	13452.1	13290.2	13379.9	13336.3	13312.6
17.5°	9046.1	8983.9	9103.4	9067.3	8911.6
20°	6507.4	6523.6	6751.6	6637.0	6498.7
22.5°	4748.5	4807.1	5077.4	4782.2	4673.8
25°	3161.5	3281.1	3565.1	3197.7	3096.8
27.5°	1944.5	1999.3	2287.1	1919.6	1864.8
30°	1209.6	1182.2	1317.9	1131.1	1053.8
32.5°	793.5	758.6	802.2	720.0	657.7
35°	530.7	541.9	508.2	504.5	426.0
37.5°	331.4	381.2	336.3	358.8	274.1
40°	214.3	276.5	237.9	262.8	201.8
42.5°	175.6	213.0	195.6	208.0	179.4
45°	139.5	173.1	173.1	173.1	140.8
47.5°	77.2	115.8	148.2	118.3	82.2
50°	43.6	58.5	114.6	61.0	46.1
52.5°	29.9	33.6	78.5	34.9	31.1
55°	22.4	23.7	42.4	24.9	23.7
57.5°	17.4	18.7	22.4	18.7	17.4
60°	13.7	13.7	16.2	14.9	13.7
62.5°	10.0	10.0	11.2	10.0	10.0
65°	7.5	7.5	7.5	7.5	7.5
67.5°	3.7	5.0	5.0	5.0	5.0
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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