

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: P753820

Luminaire Tested: LD4D80BD010-EU4DR3070959040-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753820
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: LD4D80BD010-EU4DR3070959040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6329.1 lumens
Efficiency: N/A
Efficacy: 80.2 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

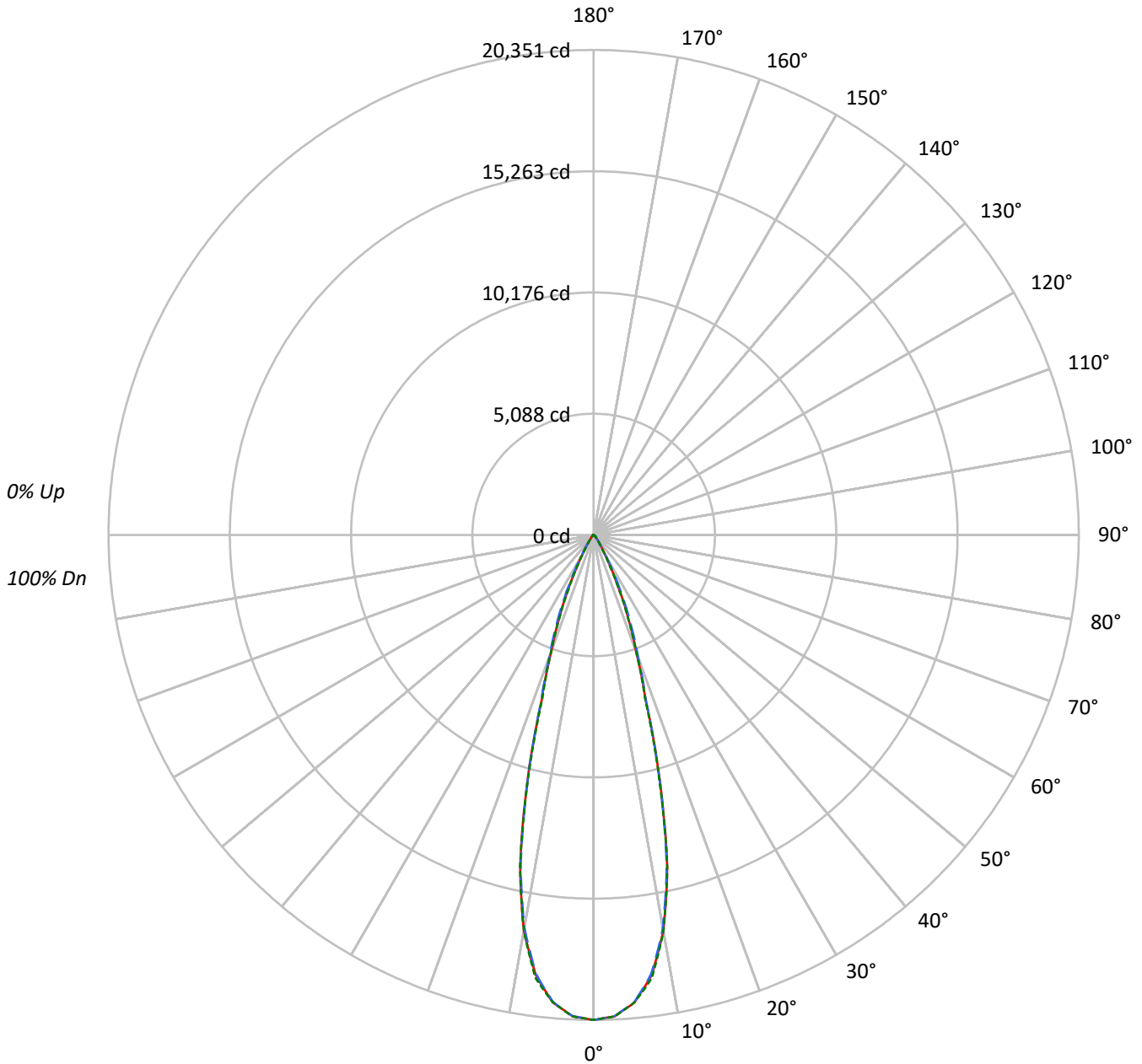
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1557735	1557735	1557735
5°	1513019	1511252	1513096
10°	1310500	1301259	1310189
15°	855038	850442	846171
20°	425167	441124	424596
25°	214173	241511	209781
30°	85751	93431	74712
35°	39769	38096	31929
40°	17176	19065	16177
45°	12113	15036	12221
50°	4168	10943	4406
55°	2402	4537	2536
60°	1684	1990	1684
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15036 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1789.6	28.3
10°-20°	2882.1	45.5
20°-30°	1245.4	19.7
30°-40°	283.9	4.5
40°-50°	97.5	1.5
50°-60°	23.8	0.4
60°-70°	6.2	0.1
70°-80°	0.7	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°	5917.1	93.5
0°-40°	6201.0	98.0
0°-60°	6322.3	99.9
0°-90°	6329.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6329.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20351	20351	20351	20351	20351	
5°	19692	19673	19669	19710	19693	1791
15°	10790	10660	10732	10697	10678	2889
25°	2536	2632	2860	2565	2484	1214
35°	426	435	408	405	342	289
45°	112	139	139	139	113	79
55°	18	19	34	20	19	18
65°	6	6	6	6	6	6
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°	20351.0	20351.0	20351.0	20351.0	20351.0
2.5°	20216.1	20202.1	20210.1	20220.1	20224.1
5°	19691.6	19672.6	19668.6	19709.6	19692.6
7.5°	18633.5	18606.5	18565.5	18658.4	18745.4
10°	16860.9	16831.0	16742.0	16786.0	16856.9
12.5°	14244.1	14147.2	14145.2	14285.1	14266.1
15°	10790.0	10660.1	10732.0	10697.1	10678.1
17.5°	7255.9	7206.0	7301.9	7272.9	7148.0
20°	5219.6	5232.6	5415.5	5323.6	5212.6
22.5°	3808.8	3855.8	4072.6	3835.8	3748.9
25°	2535.9	2631.8	2859.6	2564.9	2483.9
27.5°	1559.7	1603.7	1834.5	1539.7	1495.8
30°	970.2	948.2	1057.1	907.2	845.3
32.5°	636.5	608.5	643.5	577.5	527.6
35°	425.6	434.6	407.7	404.7	341.7
37.5°	265.8	305.7	269.8	287.8	219.8
40°	171.9	221.8	190.8	210.8	161.9
42.5°	140.9	170.9	156.9	166.9	143.9
45°	111.9	138.9	138.9	138.9	112.9
47.5°	61.9	92.9	118.9	94.9	65.9
50°	35.0	47.0	91.9	49.0	37.0
52.5°	24.0	27.0	62.9	28.0	25.0
55°	18.0	19.0	34.0	20.0	19.0
57.5°	14.0	15.0	18.0	15.0	14.0
60°	11.0	11.0	13.0	12.0	11.0
62.5°	8.0	8.0	9.0	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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