

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: P792299

Luminaire Tested: LER6D40BD010-EC6DR3040509027-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D40BD010-EC6DR3040509027-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4187.9 lumens
Efficiency: N/A
Efficacy: 119.0 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): 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

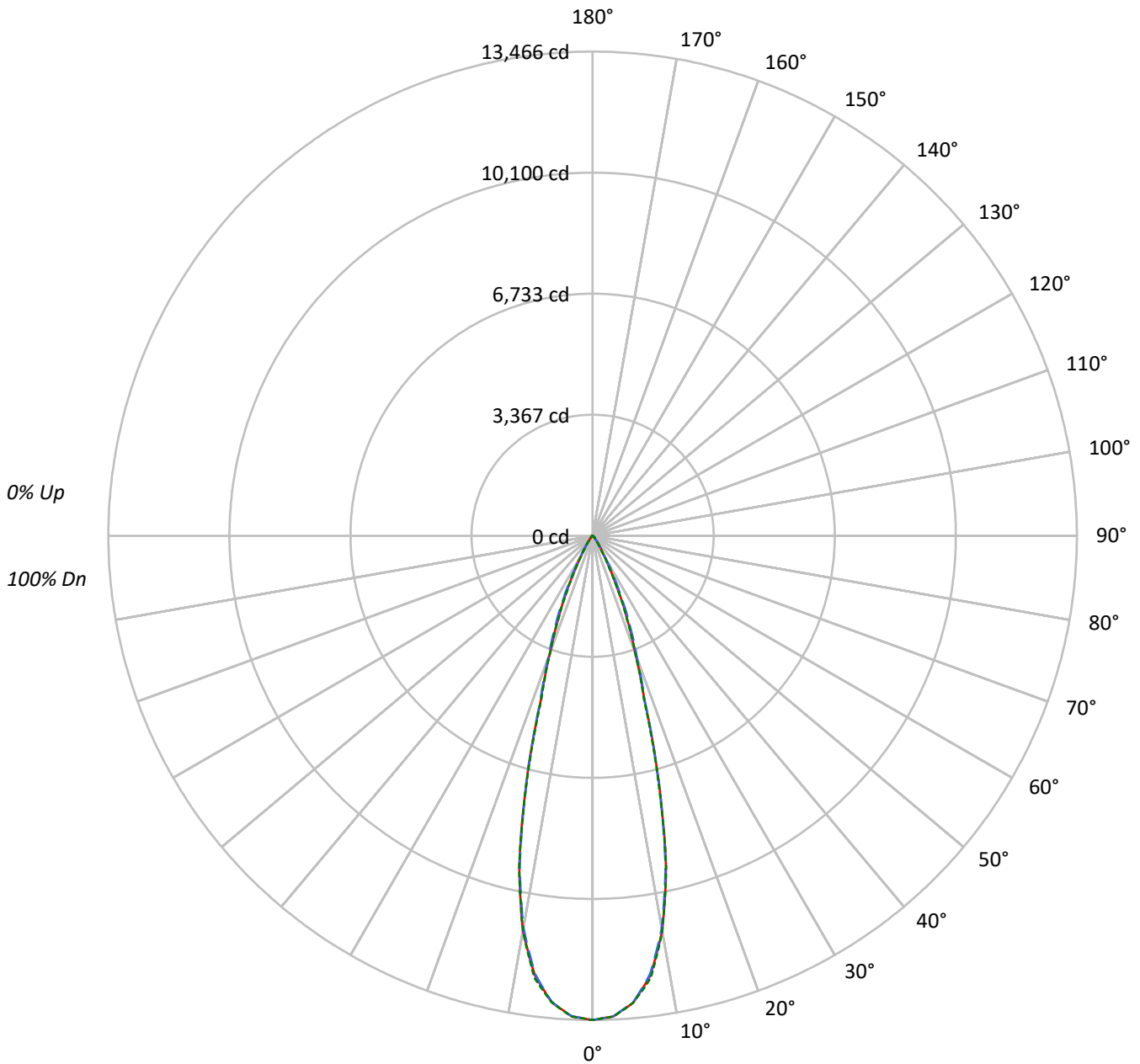


Downlight

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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1030749	1030749	1030749
5°	1001163	999995	1001209
10°	867153	861044	866951
15°	565775	562740	559911
20°	281332	291889	280957
25°	141718	159808	138812
30°	56743	61825	49434
35°	26313	25201	21127
40°	11361	12620	10701
45°	8010	9948	8086
50°	2751	7240	2917
55°	1588	3003	1681
60°	1118	1317	1118
65°	724	724	724
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 9948 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1184.1	28.3
10°-20°	1907.1	45.5
20°-30°	824.1	19.7
30°-40°	187.8	4.5
40°-50°	64.5	1.5
50°-60°	15.8	0.4
60°-70°	4.1	0.1
70°-80°	0.4	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°	3915.3	93.5
0°-40°	4103.2	98.0
0°-60°	4183.4	99.9
0°-90°	4187.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4187.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13466	13466	13466	13466	13466	
5°	13030	13017	13015	13042	13030	1185
15°	7140	7054	7101	7078	7066	1912
25°	1678	1742	1892	1697	1644	803
35°	282	288	270	268	226	191
45°	74	92	92	92	75	53
55°	12	13	22	13	13	12
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°	13466.2	13466.2	13466.2	13466.2	13466.2
2.5°	13377.0	13367.7	13373.0	13379.6	13382.2
5°	13029.9	13017.3	13014.7	13041.8	13030.5
7.5°	12329.7	12311.9	12284.7	12346.2	12403.8
10°	11156.8	11137.0	11078.2	11107.2	11154.2
12.5°	9425.3	9361.2	9359.8	9452.4	9439.8
15°	7139.7	7053.8	7101.4	7078.2	7065.7
17.5°	4801.2	4768.2	4831.7	4812.5	4729.8
20°	3453.8	3462.4	3583.4	3522.6	3449.2
22.5°	2520.3	2551.4	2694.8	2538.1	2480.6
25°	1678.0	1741.5	1892.2	1697.2	1643.6
27.5°	1032.0	1061.1	1213.9	1018.8	989.7
30°	642.0	627.4	699.5	600.3	559.3
32.5°	421.1	402.6	425.8	382.1	349.1
35°	281.6	287.6	269.7	267.8	226.1
37.5°	175.9	202.3	178.5	190.4	145.5
40°	113.7	146.8	126.3	139.5	107.1
42.5°	93.2	113.1	103.8	110.4	95.2
45°	74.0	91.9	91.9	91.9	74.7
47.5°	41.0	61.5	78.7	62.8	43.6
50°	23.1	31.1	60.8	32.4	24.5
52.5°	15.9	17.9	41.7	18.5	16.5
55°	11.9	12.6	22.5	13.2	12.6
57.5°	9.3	9.9	11.9	9.9	9.3
60°	7.3	7.3	8.6	7.9	7.3
62.5°	5.3	5.3	6.0	5.3	5.3
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.6	2.6	2.6	2.6
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	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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(END OF REPORT)