

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: P792302

Luminaire Tested: LER6D40BD010-EC6DR3040509027-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792302
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-EC6DR3040509027-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4245.9 lumens
Efficiency: N/A
Efficacy: 120.6 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

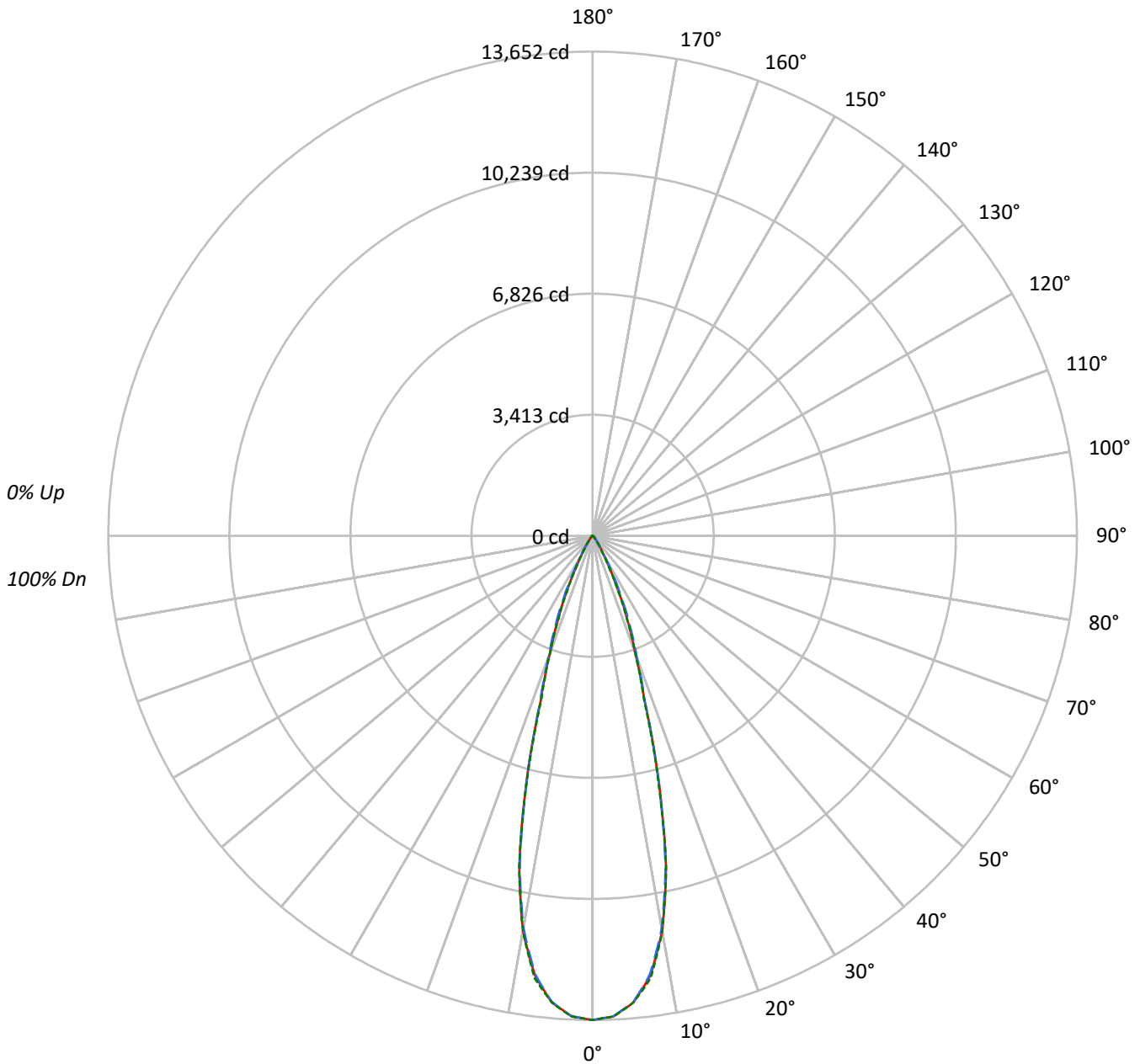


Downlight

TEST NUMBER: P792302

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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°	1045009	1045009	1045009
5°	1015008	1013825	1015062
10°	879154	872952	878944
15°	573604	570522	567653
20°	285226	295929	284843
25°	143677	162021	140730
30°	57530	62682	50123
35°	26678	25556	21417
40°	11521	12790	10851
45°	8129	10089	8194
50°	2798	7347	2953
55°	1615	3043	1695
60°	1133	1332	1133
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: 10089 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1200.5	28.3
10°-20°	1933.5	45.5
20°-30°	835.5	19.7
30°-40°	190.4	4.5
40°-50°	65.4	1.5
50°-60°	16.0	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°	3969.5	93.5
0°-40°	4159.9	98.0
0°-60°	4241.3	99.9
0°-90°	4245.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4245.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13652	13652	13652	13652	13652	
5°	13210	13197	13195	13222	13211	1202
15°	7238	7151	7200	7176	7163	1938
25°	1701	1766	1918	1721	1666	814
35°	286	292	274	272	229	194
45°	75	93	93	93	76	53
55°	12	13	23	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°	13652.5	13652.5	13652.5	13652.5	13652.5
2.5°	13562.0	13552.7	13558.0	13564.7	13567.4
5°	13210.1	13197.4	13194.7	13222.2	13210.8
7.5°	12500.3	12482.2	12454.7	12517.1	12575.4
10°	11311.2	11291.1	11231.4	11260.9	11308.5
12.5°	9555.7	9490.7	9489.3	9583.2	9570.4
15°	7238.5	7151.4	7199.6	7176.2	7163.4
17.5°	4867.7	4834.2	4898.5	4879.1	4795.3
20°	3501.6	3510.3	3633.0	3571.3	3496.9
22.5°	2555.2	2586.7	2732.1	2573.3	2514.9
25°	1701.2	1765.6	1918.4	1720.6	1666.3
27.5°	1046.3	1075.8	1230.7	1032.9	1003.4
30°	650.9	636.1	709.2	608.6	567.1
32.5°	427.0	408.2	431.7	387.4	353.9
35°	285.5	291.6	273.5	271.5	229.2
37.5°	178.3	205.1	181.0	193.0	147.5
40°	115.3	148.8	128.0	141.4	108.6
42.5°	94.5	114.6	105.2	111.9	96.5
45°	75.1	93.2	93.2	93.2	75.7
47.5°	41.6	62.3	79.8	63.7	44.2
50°	23.5	31.5	61.7	32.8	24.8
52.5°	16.1	18.1	42.2	18.8	16.8
55°	12.1	12.7	22.8	13.4	12.7
57.5°	9.4	10.1	12.1	10.1	9.4
60°	7.4	7.4	8.7	8.0	7.4
62.5°	5.4	5.4	6.0	5.4	5.4
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.7	2.7	2.7	2.7
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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