

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: P792330

Luminaire Tested: LER6D40BD010-EC6DR3040509050-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792330
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-EC6DR3040509050-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4154.5 lumens
Efficiency: N/A
Efficacy: 118.0 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

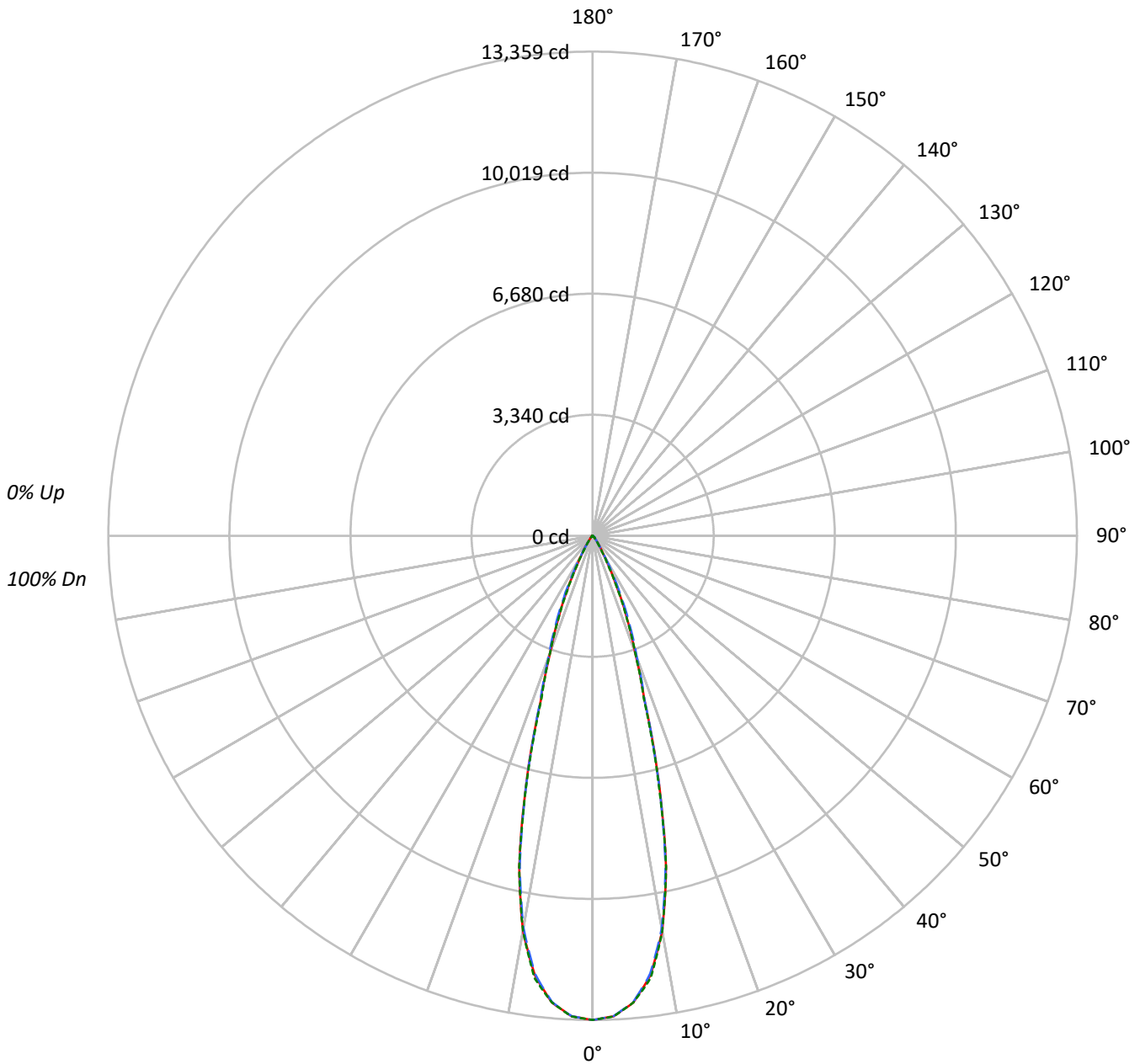


Downlight

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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°	1022528	1022528	1022528
5°	993179	992019	993225
10°	860244	854173	860042
15°	561266	558247	555442
20°	279092	289559	278717
25°	140586	158533	137706
30°	56292	61330	49045
35°	26108	25005	20959
40°	11271	12520	10622
45°	7956	9872	8021
50°	2739	7181	2894
55°	1575	2976	1668
60°	1102	1301	1102
65°	706	706	706
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: 9872 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1174.7	28.3
10°-20°	1891.9	45.5
20°-30°	817.5	19.7
30°-40°	186.3	4.5
40°-50°	64.0	1.5
50°-60°	15.6	0.4
60°-70°	4.0	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°	3884.1	93.5
0°-40°	4070.4	98.0
0°-60°	4150.1	99.9
0°-90°	4154.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4154.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13359	13359	13359	13359	13359	
5°	12926	12914	12911	12938	12927	1176
15°	7083	6998	7045	7022	7009	1897
25°	1665	1728	1877	1684	1630	797
35°	279	285	268	266	224	190
45°	74	91	91	91	74	52
55°	12	12	22	13	12	11
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13358.8	13358.8	13358.8	13358.8	13358.8
2.5°	13270.3	13261.1	13266.4	13272.9	13275.5
5°	12926.0	12913.5	12910.9	12937.8	12926.6
7.5°	12231.4	12213.7	12186.8	12247.8	12304.9
10°	11067.9	11048.2	10989.8	11018.7	11065.3
12.5°	9350.1	9286.5	9285.2	9377.0	9364.6
15°	7082.8	6997.5	7044.7	7021.8	7009.3
17.5°	4763.0	4730.2	4793.1	4774.1	4692.1
20°	3426.3	3434.8	3554.8	3494.5	3421.7
22.5°	2500.2	2531.0	2673.3	2517.9	2460.8
25°	1664.6	1727.6	1877.1	1683.6	1630.5
27.5°	1023.8	1052.7	1204.2	1010.7	981.8
30°	636.9	622.4	693.9	595.5	554.9
32.5°	417.8	399.4	422.4	379.1	346.3
35°	279.4	285.3	267.6	265.6	224.3
37.5°	174.5	200.7	177.1	188.9	144.3
40°	112.8	145.6	125.3	138.4	106.3
42.5°	92.5	112.2	103.0	109.5	94.4
45°	73.5	91.2	91.2	91.2	74.1
47.5°	40.7	61.0	78.0	62.3	43.3
50°	23.0	30.8	60.3	32.1	24.3
52.5°	15.7	17.7	41.3	18.4	16.4
55°	11.8	12.5	22.3	13.1	12.5
57.5°	9.2	9.8	11.8	9.8	9.2
60°	7.2	7.2	8.5	7.9	7.2
62.5°	5.2	5.2	5.9	5.2	5.2
65°	3.9	3.9	3.9	3.9	3.9
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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