

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: P792814

Luminaire Tested: LER6D45BD010-EC6DR3040509050-6LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792814  
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: LER6D45BD010-EC6DR3040509050-6LBS1MW  
Description: 6 INCH ROUND SHALLOW 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: 5104.5 lumens  
Efficiency: N/A  
Efficacy: 131.9 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): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

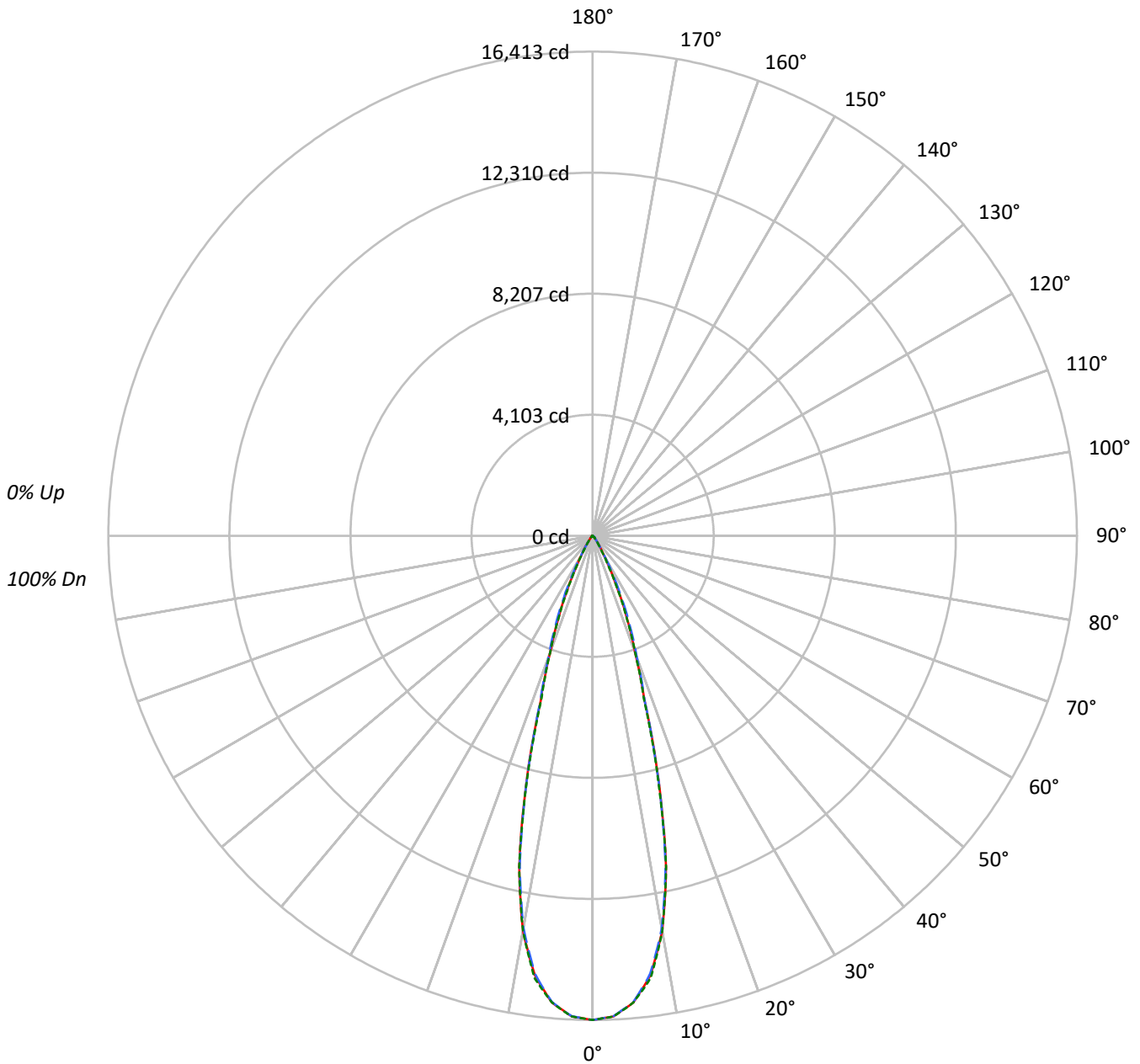


Downlight

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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	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°	1256337	1256337	1256337
5°	1220267	1218846	1220329
10°	1056940	1049487	1056684
15°	689601	685893	682445
20°	342904	355774	342448
25°	172730	194782	169191
30°	69161	75357	60252
35°	32079	30724	25753
40°	13849	15378	13040
45°	9775	12124	9861
50°	3358	8824	3549
55°	1935	3657	2042
60°	1362	1607	1362
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 12124 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1443.3	28.3
10°-20°	2324.5	45.5
20°-30°	1004.5	19.7
30°-40°	228.9	4.5
40°-50°	78.6	1.5
50°-60°	19.2	0.4
60°-70°	5.0	0.1
70°-80°	0.5	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°	4772.2	93.5
0°-40°	5001.2	98.0
0°-60°	5099.0	99.9
0°-90°	5104.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5104.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	16413	16413	16413	16413	16413	
5°	15882	15866	15863	15896	15882	1444
15°	8702	8598	8656	8627	8612	2330
25°	2045	2123	2306	2069	2003	979
35°	343	350	329	326	276	233
45°	90	112	112	112	91	64
55°	14	15	27	16	15	14
65°	5	5	5	5	5	5
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°	16413.4	16413.4	16413.4	16413.4	16413.4
2.5°	16304.6	16293.3	16299.7	16307.8	16311.0
5°	15881.5	15866.2	15863.0	15896.0	15882.3
7.5°	15028.1	15006.4	14973.3	15048.3	15118.4
10°	13598.6	13574.4	13502.7	13538.1	13595.3
12.5°	11488.1	11409.9	11408.3	11521.1	11505.8
15°	8702.3	8597.5	8655.5	8627.3	8612.0
17.5°	5852.0	5811.7	5889.1	5865.7	5765.0
20°	4209.7	4220.2	4367.7	4293.5	4204.1
22.5°	3071.9	3109.7	3284.6	3093.6	3023.5
25°	2045.2	2122.6	2306.3	2068.6	2003.3
27.5°	1257.9	1293.4	1479.5	1241.8	1206.3
30°	782.5	764.7	852.6	731.7	681.7
32.5°	513.3	490.8	519.0	465.8	425.5
35°	343.3	350.5	328.8	326.4	275.6
37.5°	214.4	246.6	217.6	232.1	177.3
40°	138.6	178.9	153.9	170.0	130.5
42.5°	113.6	137.8	126.5	134.6	116.0
45°	90.3	112.0	112.0	112.0	91.1
47.5°	50.0	74.9	95.9	76.6	53.2
50°	28.2	37.9	74.1	39.5	29.8
52.5°	19.3	21.8	50.8	22.6	20.1
55°	14.5	15.3	27.4	16.1	15.3
57.5°	11.3	12.1	14.5	12.1	11.3
60°	8.9	8.9	10.5	9.7	8.9
62.5°	6.4	6.4	7.3	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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