

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: P792303

Luminaire Tested: LER6D40BD010-EC6DR3040509030-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792303  
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-EC6DR3040509030-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3519.6 lumens  
Efficiency: N/A  
Efficacy: 100.0 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<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

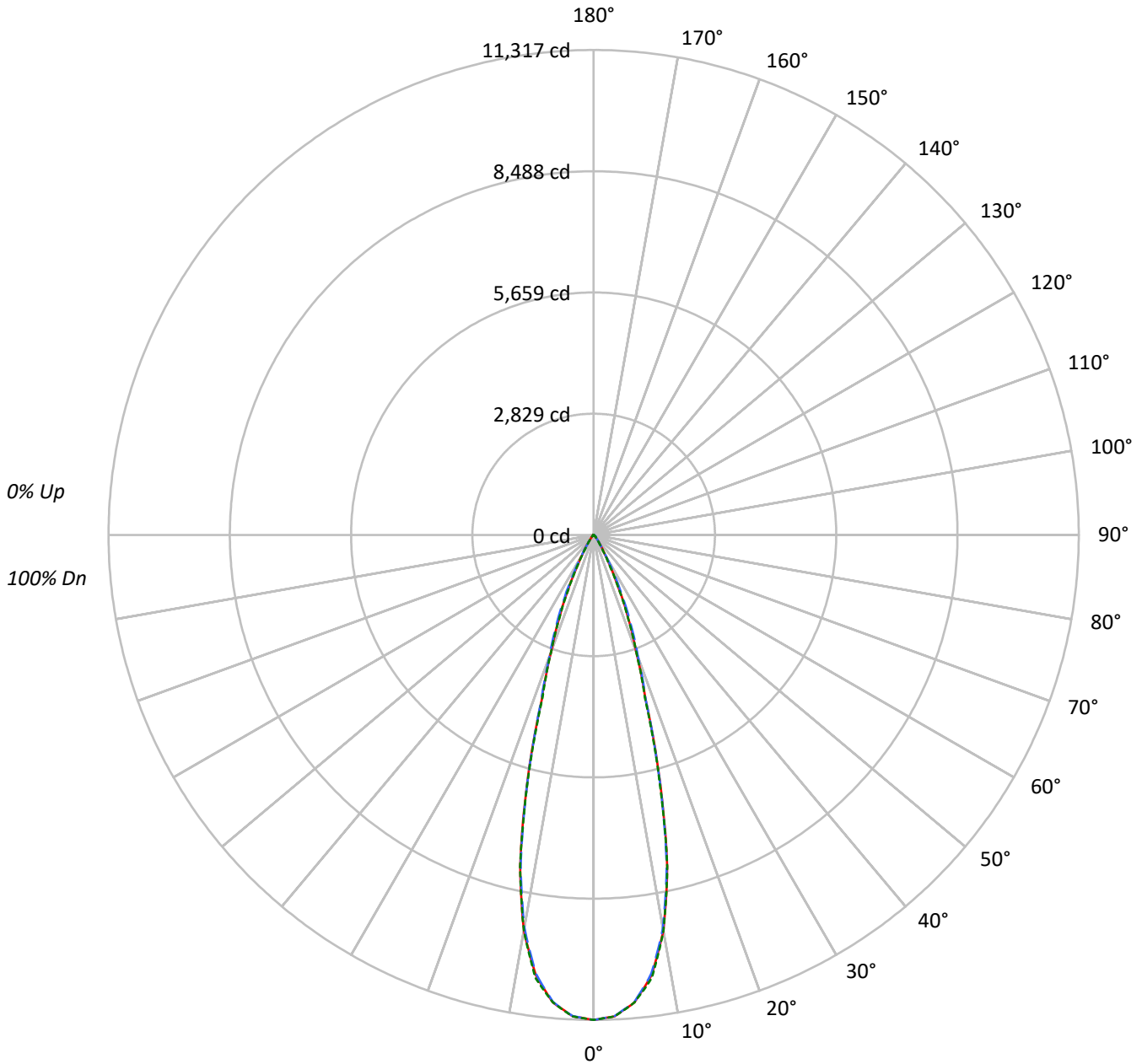


Downlight

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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	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°	866257	866257	866257
5°	841383	840407	841429
10°	728765	723628	728594
15°	475485	472933	470556
20°	236434	245304	236116
25°	119100	134302	116659
30°	47684	51961	41550
35°	22118	21183	17754
40°	9552	10602	8993
45°	6733	8357	6798
50°	2310	6085	2453
55°	1334	2522	1415
60°	934	1102	934
65°	598	598	598
70°	380	246	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 8357 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	995.2	28.3
10°-20°	1602.7	45.5
20°-30°	692.6	19.7
30°-40°	157.8	4.5
40°-50°	54.2	1.5
50°-60°	13.2	0.4
60°-70°	3.4	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°	3290.5	93.5
0°-40°	3448.3	98.0
0°-60°	3515.8	99.9
0°-90°	3519.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3519.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	11317	11317	11317	11317	11317	
5°	10950	10940	10938	10960	10951	996
15°	6000	5928	5968	5949	5938	1607
25°	1410	1464	1590	1426	1381	675
35°	237	242	227	225	190	161
45°	62	77	77	77	63	44
55°	10	11	19	11	11	10
65°	3	3	3	3	3	3
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°	11317.2	11317.2	11317.2	11317.2	11317.2
2.5°	11242.1	11234.4	11238.8	11244.4	11246.6
5°	10950.4	10939.9	10937.7	10960.4	10951.0
7.5°	10362.0	10347.0	10324.2	10375.9	10424.2
10°	9376.3	9359.7	9310.2	9334.7	9374.1
12.5°	7921.1	7867.2	7866.1	7943.9	7933.3
15°	6000.3	5928.1	5968.1	5948.6	5938.1
17.5°	4035.0	4007.2	4060.6	4044.5	3975.0
20°	2902.6	2909.9	3011.5	2960.4	2898.7
22.5°	2118.1	2144.2	2264.8	2133.1	2084.7
25°	1410.2	1463.5	1590.2	1426.3	1381.3
27.5°	867.3	891.8	1020.1	856.2	831.8
30°	539.5	527.3	587.9	504.5	470.1
32.5°	353.9	338.4	357.8	321.2	293.4
35°	236.7	241.7	226.7	225.0	190.0
37.5°	147.8	170.0	150.0	160.0	122.2
40°	95.6	123.4	106.1	117.2	90.0
42.5°	78.3	95.0	87.2	92.8	80.0
45°	62.2	77.2	77.2	77.2	62.8
47.5°	34.4	51.7	66.1	52.8	36.7
50°	19.4	26.1	51.1	27.2	20.6
52.5°	13.3	15.0	35.0	15.6	13.9
55°	10.0	10.6	18.9	11.1	10.6
57.5°	7.8	8.3	10.0	8.3	7.8
60°	6.1	6.1	7.2	6.7	6.1
62.5°	4.4	4.4	5.0	4.4	4.4
65°	3.3	3.3	3.3	3.3	3.3
67.5°	1.7	2.2	2.2	2.2	2.2
70°	1.7	1.1	1.1	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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)