

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: P771846

Luminaire Tested: LD6D80BD010-EU6DR3070959027-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P771846  
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: LD6D80BD010-EU6DR3070959027-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9161.6 lumens  
Efficiency: N/A  
Efficacy: 116.1 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): 78.9  
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

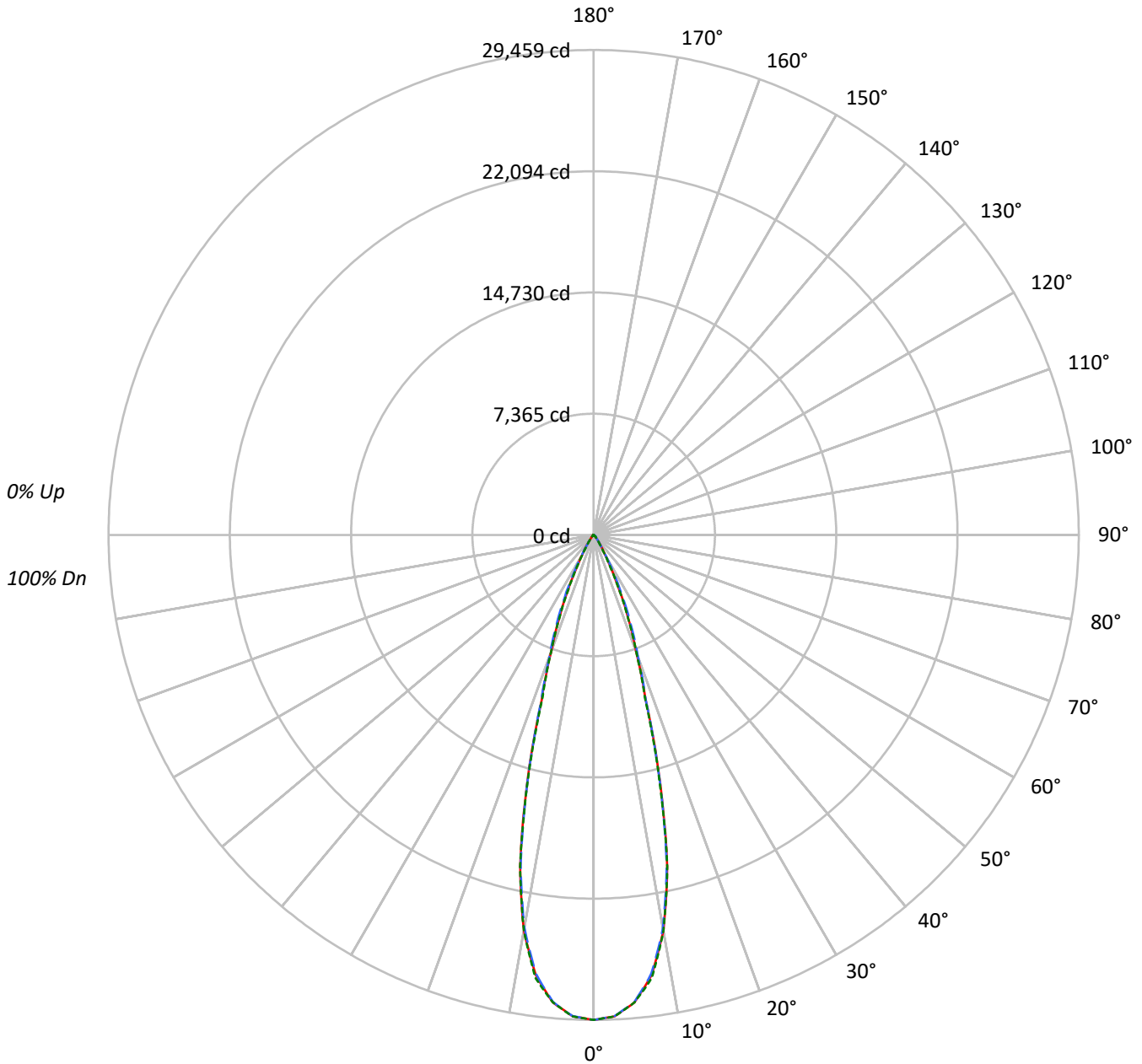


Downlight

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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	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°	2254900	2254900	2254900
5°	2190165	2187615	2190281
10°	1897015	1883638	1896564
15°	1237713	1231064	1224876
20°	615455	638548	614633
25°	310022	349598	303671
30°	124127	135246	108148
35°	57570	55140	46217
40°	24860	27608	23411
45°	17536	21758	17688
50°	6025	15850	6371
55°	3470	6566	3670
60°	2434	2878	2434
65°	1576	1576	1576
70°	962	649	962
75°	0	414	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 21758 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2590.5	28.3
10°-20°	4172.0	45.5
20°-30°	1802.8	19.7
30°-40°	410.9	4.5
40°-50°	141.1	1.5
50°-60°	34.5	0.4
60°-70°	8.9	0.1
70°-80°	0.9	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°	8565.3	93.5
0°-40°	8976.2	98.0
0°-60°	9151.8	99.9
0°-90°	9161.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9161.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	29459	29459	29459	29459	29459	
5°	28504	28477	28471	28531	28506	2593
15°	15619	15431	15535	15484	15457	4182
25°	3671	3810	4139	3713	3596	1757
35°	616	629	590	586	495	418
45°	162	201	201	201	163	115
55°	26	28	49	29	28	25
65°	9	9	9	9	9	9
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°	29459.1	29459.1	29459.1	29459.1	29459.1
2.5°	29263.8	29243.6	29255.2	29269.6	29275.4
5°	28504.5	28477.0	28471.3	28530.6	28506.0
7.5°	26972.8	26933.8	26874.5	27009.0	27134.8
10°	24407.0	24363.6	24234.9	24298.6	24401.2
12.5°	20619.1	20478.8	20475.9	20678.4	20650.9
15°	15619.1	15431.0	15535.2	15484.5	15457.1
17.5°	10503.3	10431.0	10569.9	10527.9	10347.1
20°	7555.7	7574.5	7839.2	7706.1	7545.6
22.5°	5513.5	5581.4	5895.3	5552.5	5426.7
25°	3670.8	3809.7	4139.4	3712.8	3595.6
27.5°	2257.7	2321.4	2655.5	2228.8	2165.2
30°	1404.4	1372.6	1530.2	1313.3	1223.6
32.5°	921.3	880.8	931.4	836.0	763.7
35°	616.1	629.2	590.1	585.8	494.6
37.5°	384.7	442.6	390.5	416.5	318.2
40°	248.8	321.1	276.3	305.2	234.3
42.5°	203.9	247.3	227.1	241.5	208.3
45°	162.0	201.0	201.0	201.0	163.4
47.5°	89.7	134.5	172.1	137.4	95.5
50°	50.6	68.0	133.1	70.9	53.5
52.5°	34.7	39.1	91.1	40.5	36.2
55°	26.0	27.5	49.2	28.9	27.5
57.5°	20.2	21.7	26.0	21.7	20.2
60°	15.9	15.9	18.8	17.4	15.9
62.5°	11.6	11.6	13.0	11.6	11.6
65°	8.7	8.7	8.7	8.7	8.7
67.5°	4.3	5.8	5.8	5.8	5.8
70°	4.3	2.9	2.9	2.9	4.3
72.5°	2.9	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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)