

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: P770324

Luminaire Tested: LD6D70BD010-EU6DR3070959040-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P770324  
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: LD6D70BD010-EU6DR3070959040-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6712.6 lumens  
Efficiency: N/A  
Efficacy: 100.8 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): 66.6  
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

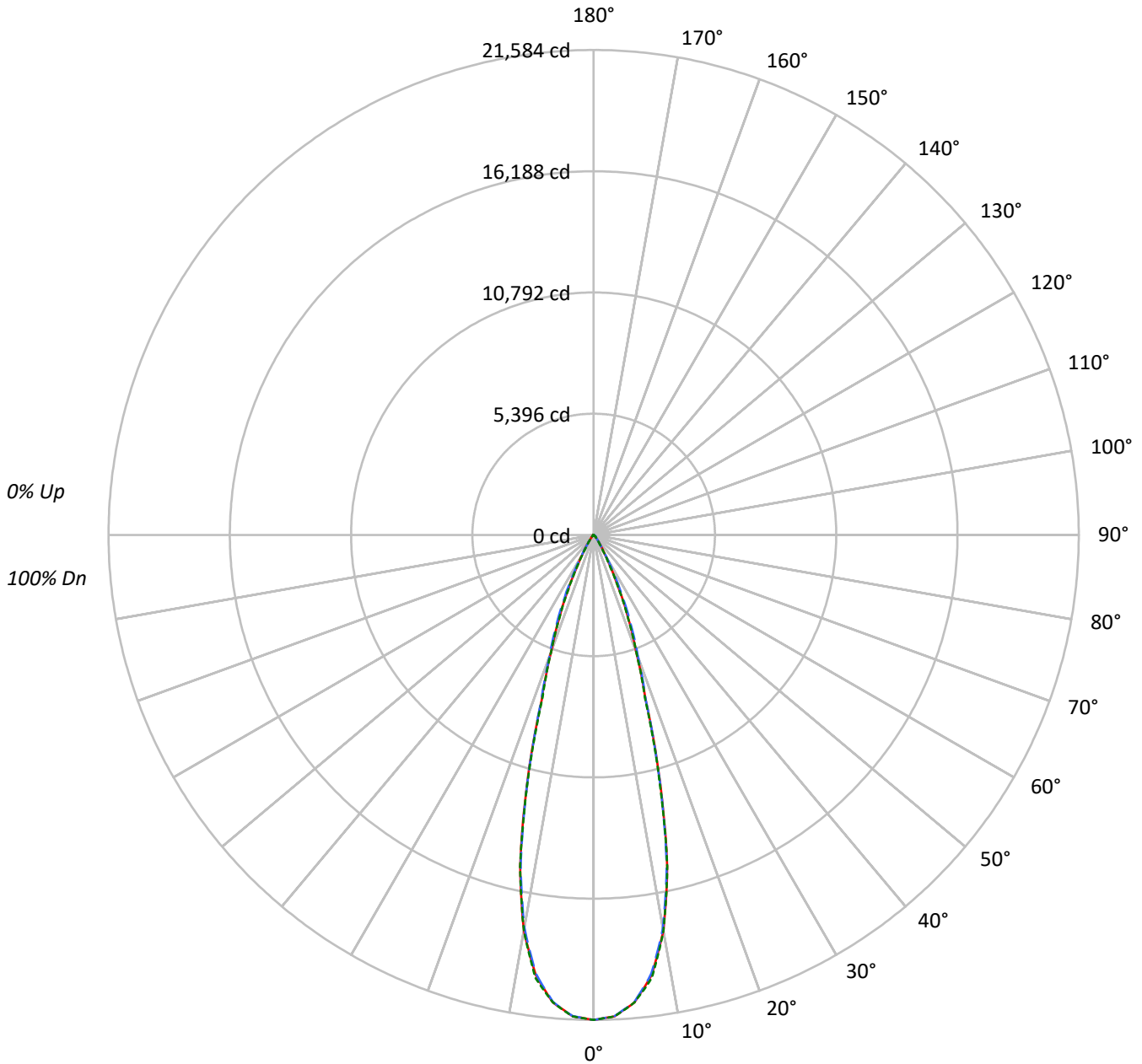


Downlight

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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°	1652136	1652136	1652136
5°	1604708	1602833	1604792
10°	1389919	1380118	1389592
15°	906855	901982	897449
20°	450939	467858	450328
25°	227154	256147	222500
30°	90948	99097	79237
35°	42180	40404	33863
40°	18215	20224	17156
45°	12849	15945	12957
50°	4418	11610	4668
55°	2549	4804	2682
60°	1791	2113	1791
65°	1159	1159	1159
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15945 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1898.0	28.3
10°-20°	3056.8	45.5
20°-30°	1320.9	19.7
30°-40°	301.1	4.5
40°-50°	103.4	1.5
50°-60°	25.3	0.4
60°-70°	6.6	0.1
70°-80°	0.7	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°	6275.7	93.5
0°-40°	6576.8	98.0
0°-60°	6705.4	99.9
0°-90°	6712.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6712.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21584	21584	21584	21584	21584	
5°	20885	20865	20860	20904	20886	1900
15°	11444	11306	11382	11345	11325	3064
25°	2690	2791	3033	2720	2634	1287
35°	451	461	432	429	362	306
45°	119	147	147	147	120	84
55°	19	20	36	21	20	19
65°	6	6	6	6	6	6
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°	21584.3	21584.3	21584.3	21584.3	21584.3
2.5°	21441.3	21426.4	21434.9	21445.5	21449.8
5°	20884.9	20864.8	20860.5	20904.0	20886.0
7.5°	19762.7	19734.1	19690.6	19789.2	19881.4
10°	17882.7	17850.9	17756.6	17803.3	17878.5
12.5°	15107.3	15004.5	15002.4	15150.8	15130.7
15°	11443.9	11306.1	11382.4	11345.3	11325.2
17.5°	7695.7	7642.7	7744.4	7713.7	7581.2
20°	5536.0	5549.7	5743.7	5646.2	5528.5
22.5°	4039.6	4089.5	4319.4	4068.3	3976.1
25°	2689.6	2791.3	3032.9	2720.3	2634.5
27.5°	1654.2	1700.8	1945.6	1633.0	1586.4
30°	1029.0	1005.7	1121.2	962.2	896.5
32.5°	675.0	645.4	682.5	612.5	559.5
35°	451.4	461.0	432.4	429.2	362.4
37.5°	281.9	324.3	286.1	305.2	233.1
40°	182.3	235.3	202.4	223.6	171.7
42.5°	149.4	181.2	166.4	177.0	152.6
45°	118.7	147.3	147.3	147.3	119.7
47.5°	65.7	98.6	126.1	100.7	69.9
50°	37.1	49.8	97.5	51.9	39.2
52.5°	25.4	28.6	66.8	29.7	26.5
55°	19.1	20.1	36.0	21.2	20.1
57.5°	14.8	15.9	19.1	15.9	14.8
60°	11.7	11.7	13.8	12.7	11.7
62.5°	8.5	8.5	9.5	8.5	8.5
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.2	4.2	4.2	4.2
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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