

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: P772651

Luminaire Tested: LD6D85BD010-EU6DR3070959035-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P772651  
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: LD6D85BD010-EU6DR3070959035-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8174.8 lumens  
Efficiency: N/A  
Efficacy: 93.2 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

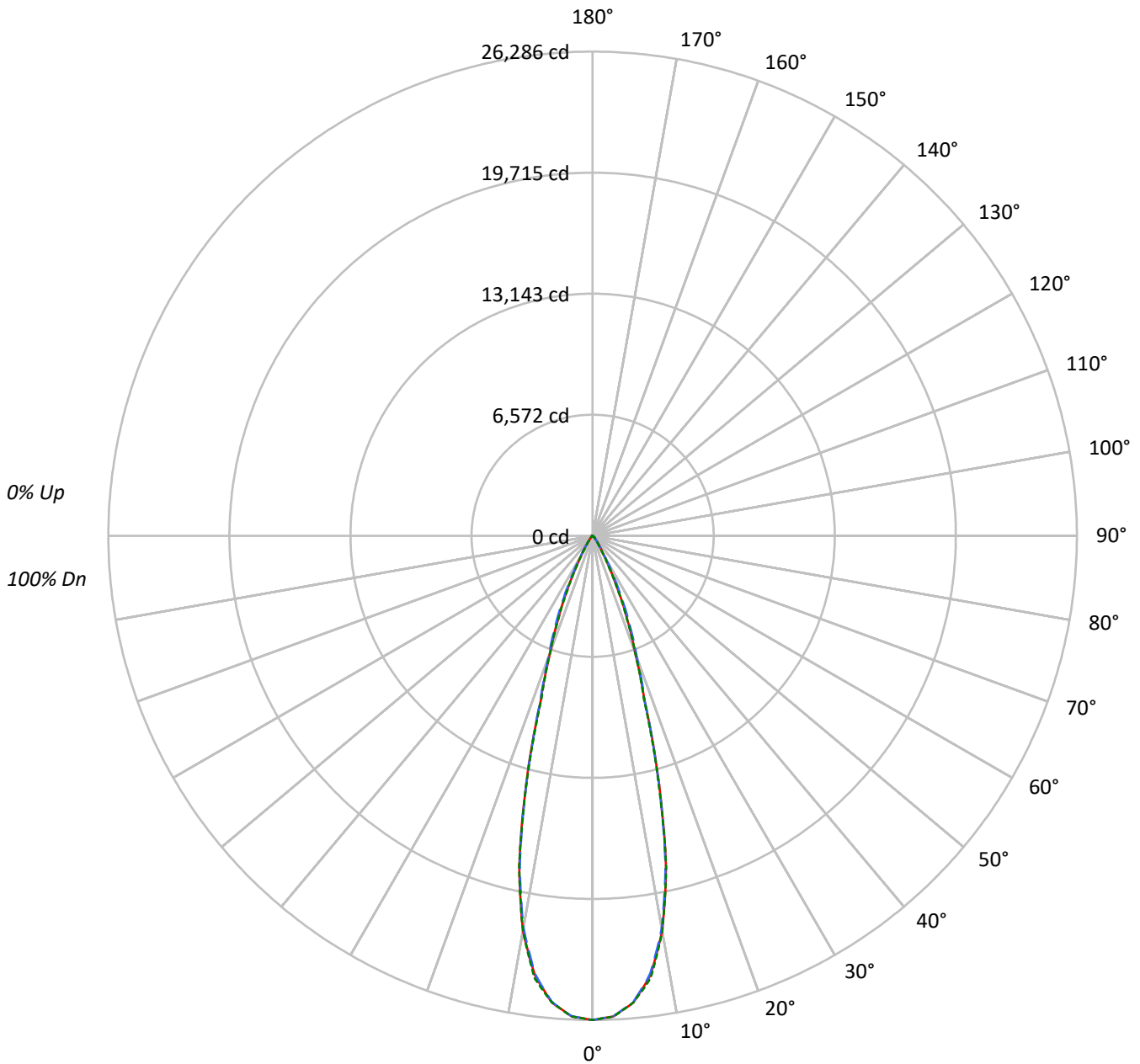
Input Watts (W): 87.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	2012004	2012004	2012004
5°	1954241	1951967	1954341
10°	1692670	1680739	1692273
15°	1104386	1098450	1092927
20°	549159	569759	548425
25°	276628	311939	270961
30°	110755	120680	96498
35°	51375	49197	41245
40°	22182	24630	20893
45°	15642	19420	15783
50°	5382	14135	5692
55°	3096	5858	3270
60°	2174	2572	2174
65°	1395	1395	1395
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 19420 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2311.4	28.3
10°-20°	3722.6	45.5
20°-30°	1608.6	19.7
30°-40°	366.6	4.5
40°-50°	125.9	1.5
50°-60°	30.8	0.4
60°-70°	8.0	0.1
70°-80°	0.8	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°	7642.7	93.5
0°-40°	8009.3	98.0
0°-60°	8165.9	99.9
0°-90°	8174.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8174.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	26286	26286	26286	26286	26286	
5°	25434	25410	25404	25457	25435	2313
15°	13937	13769	13862	13817	13792	3732
25°	3275	3399	3694	3313	3208	1568
35°	550	561	526	523	441	373
45°	144	179	179	179	146	103
55°	23	24	44	26	24	23
65°	8	8	8	8	8	8
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°	26285.8	26285.8	26285.8	26285.8	26285.8
2.5°	26111.6	26093.5	26103.8	26116.7	26121.9
5°	25434.0	25409.5	25404.4	25457.3	25435.3
7.5°	24067.4	24032.5	23979.6	24099.6	24211.9
10°	21777.9	21739.2	21624.4	21681.1	21772.8
12.5°	18398.0	18272.8	18270.2	18450.9	18426.4
15°	13936.6	13768.8	13861.7	13816.6	13792.0
17.5°	9371.9	9307.4	9431.3	9393.9	9232.6
20°	6741.8	6758.6	6994.7	6876.0	6732.8
22.5°	4919.6	4980.2	5260.3	4954.4	4842.1
25°	3275.4	3399.3	3693.5	3312.8	3208.3
27.5°	2014.5	2071.3	2369.4	1988.7	1931.9
30°	1253.1	1224.7	1365.4	1171.8	1091.8
32.5°	822.1	785.9	831.1	745.9	681.4
35°	549.8	561.4	526.5	522.7	441.4
37.5°	343.3	394.9	348.4	371.7	283.9
40°	222.0	286.5	246.5	272.3	209.1
42.5°	182.0	220.7	202.6	215.5	185.8
45°	144.5	179.4	179.4	179.4	145.8
47.5°	80.0	120.0	153.6	122.6	85.2
50°	45.2	60.7	118.7	63.2	47.8
52.5°	31.0	34.8	81.3	36.1	32.3
55°	23.2	24.5	43.9	25.8	24.5
57.5°	18.1	19.4	23.2	19.4	18.1
60°	14.2	14.2	16.8	15.5	14.2
62.5°	10.3	10.3	11.6	10.3	10.3
65°	7.7	7.7	7.7	7.7	7.7
67.5°	3.9	5.2	5.2	5.2	5.2
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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