

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: P758136

Luminaire Tested: LD6D05D010-EU6DR300210IC9024-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P758136  
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: LD6D05D010-EU6DR300210IC9024-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 453.3 lumens  
Efficiency: N/A  
Efficacy: 60.4 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): 7.5  
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



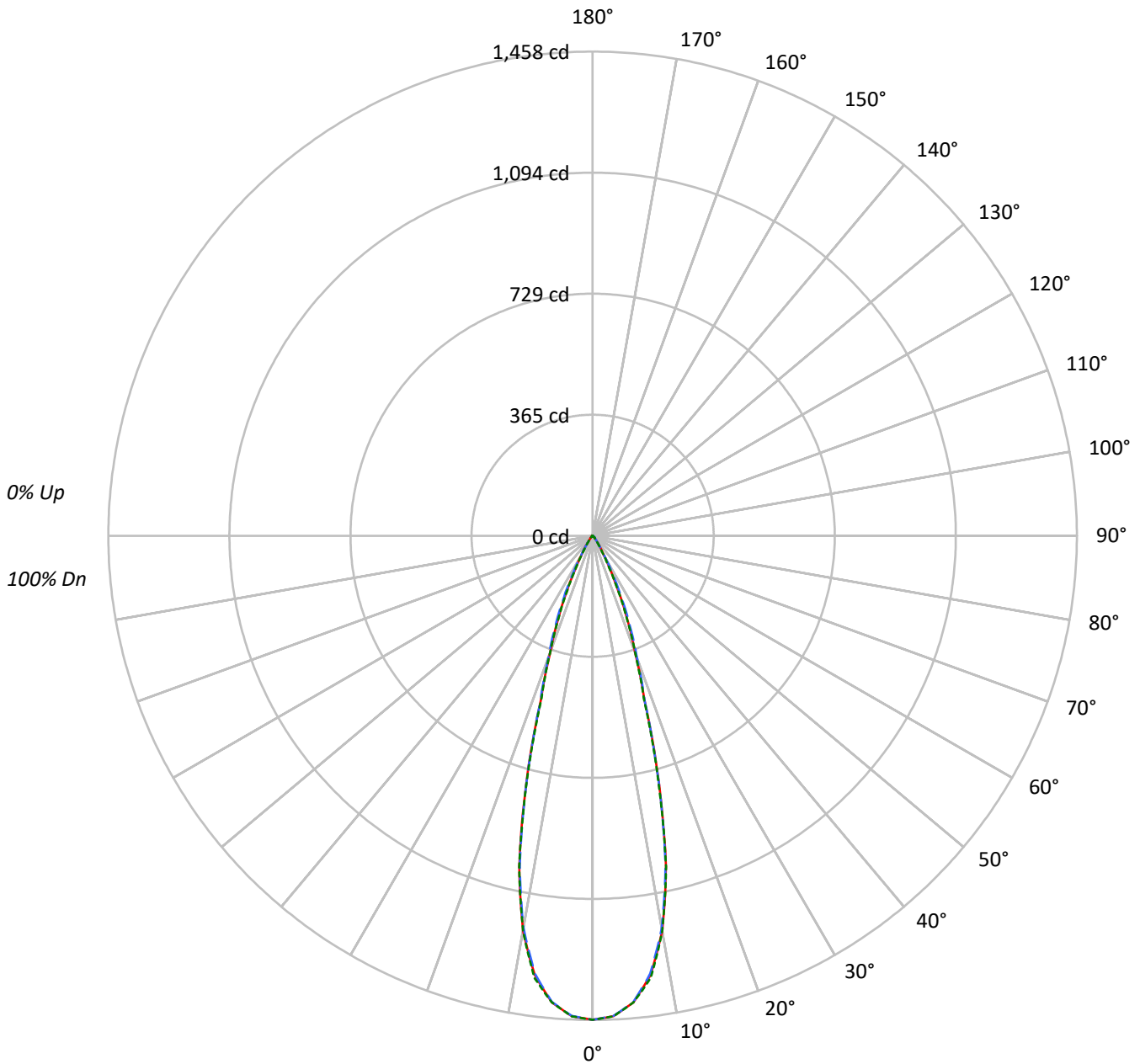
Downlight



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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°	111562	111562	111562
5°	108354	108231	108361
10°	93852	93191	93829
15°	61231	60907	60598
20°	30448	31589	30407
25°	15337	17297	15025
30°	6143	6691	5356
35°	2850	2729	2289
40°	1229	1369	1159
45°	866	1082	877
50°	298	786	310
55°	173	320	187
60°	122	138	122
65°	72	72	72
70°	45	22	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 1082 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.2	28.3
10°-20°	206.4	45.5
20°-30°	89.2	19.7
30°-40°	20.3	4.5
40°-50°	7.0	1.5
50°-60°	1.7	0.4
60°-70°	0.4	0.1
70°-80°	0.0	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°	423.8	93.5
0°-40°	444.1	98.0
0°-60°	452.8	99.9
0°-90°	453.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	453.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1410	1409	1409	1412	1410	128
15°	773	764	769	766	765	207
25°	182	188	205	184	178	87
35°	30	31	29	29	24	21
45°	8	10	10	10	8	6
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1457.5	1457.5	1457.5	1457.5	1457.5
2.5°	1447.8	1446.8	1447.3	1448.1	1448.4
5°	1410.2	1408.9	1408.6	1411.5	1410.3
7.5°	1334.5	1332.5	1329.6	1336.2	1342.5
10°	1207.5	1205.4	1199.0	1202.2	1207.2
12.5°	1020.1	1013.1	1013.0	1023.1	1021.7
15°	772.7	763.5	768.6	766.1	764.7
17.5°	519.7	516.1	522.9	520.9	511.9
20°	373.8	374.7	387.8	381.2	373.3
22.5°	272.8	276.2	291.7	274.7	268.5
25°	181.6	188.5	204.8	183.7	177.9
27.5°	111.7	114.8	131.4	110.3	107.1
30°	69.5	67.9	75.7	65.0	60.6
32.5°	45.6	43.6	46.1	41.4	37.8
35°	30.5	31.1	29.2	29.0	24.5
37.5°	19.0	21.9	19.3	20.6	15.8
40°	12.3	15.9	13.7	15.1	11.6
42.5°	10.1	12.3	11.2	12.0	10.3
45°	8.0	10.0	10.0	10.0	8.1
47.5°	4.4	6.6	8.5	6.8	4.7
50°	2.5	3.4	6.6	3.5	2.6
52.5°	1.7	1.9	4.5	2.0	1.8
55°	1.3	1.4	2.4	1.4	1.4
57.5°	1.0	1.1	1.3	1.1	1.0
60°	0.8	0.8	0.9	0.9	0.8
62.5°	0.6	0.6	0.6	0.6	0.6
65°	0.4	0.4	0.4	0.4	0.4
67.5°	0.2	0.3	0.3	0.3	0.3
70°	0.2	0.1	0.1	0.1	0.2
72.5°	0.1	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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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