

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: P745092

Luminaire Tested: LD4D25D010-EU4DR3020359040-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745092  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D25D010-EU4DR3020359040-4LBSQW1B  
Description: 4 INCH SQAURE 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: 1916.9 lumens  
Efficiency: N/A  
Efficacy: 76.4 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): 25.1  
Input Voltage (V): NR  
Input Current (Ain): 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



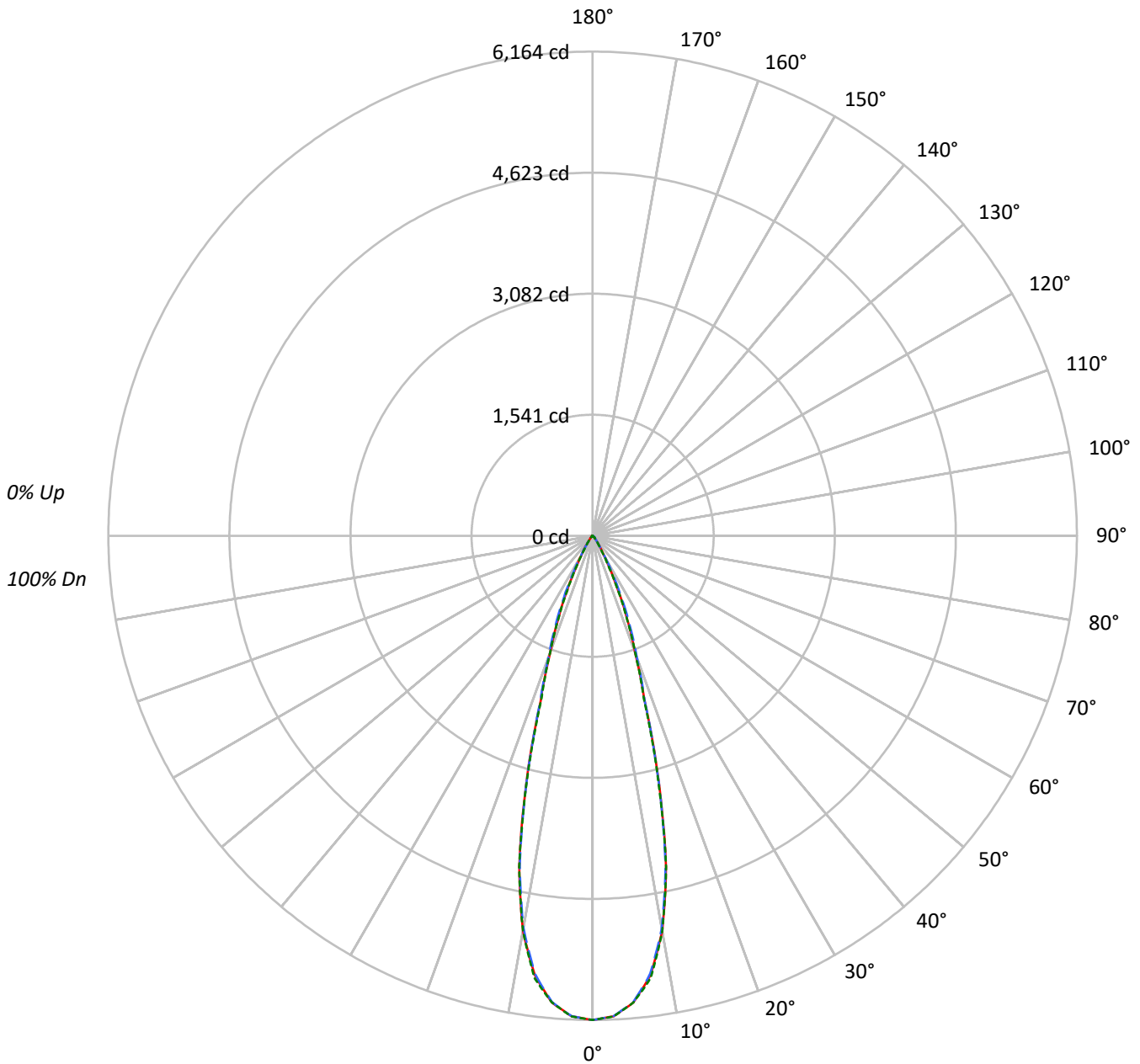
Downlight



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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°	471806	471806	471806
5°	458264	457734	458287
10°	396922	394124	396829
15°	258976	257581	256290
20°	128773	133604	128602
25°	64871	73148	63536
30°	25976	28301	22635
35°	12045	11540	9671
40°	5196	5775	4896
45°	3670	4557	3702
50°	1262	3310	1334
55°	721	1375	761
60°	505	612	505
65°	326	326	326
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 4557 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.0	28.3
10°-20°	872.9	45.5
20°-30°	377.2	19.7
30°-40°	86.0	4.5
40°-50°	29.5	1.5
50°-60°	7.2	0.4
60°-70°	1.9	0.1
70°-80°	0.2	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°	1792.2	93.5
0°-40°	1878.1	98.0
0°-60°	1914.9	99.9
0°-90°	1916.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1916.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6164	6164	6164	6164	6164	
5°	5964	5958	5957	5970	5964	542
15°	3268	3229	3250	3240	3234	875
25°	768	797	866	777	752	368
35°	129	132	124	123	104	87
45°	34	42	42	42	34	24
55°	5	6	10	6	6	5
65°	2	2	2	2	2	2
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°	6163.9	6163.9	6163.9	6163.9	6163.9
2.5°	6123.1	6118.8	6121.2	6124.3	6125.5
5°	5964.2	5958.5	5957.3	5969.6	5964.5
7.5°	5643.7	5635.5	5623.1	5651.3	5677.6
10°	5106.8	5097.8	5070.8	5084.1	5105.6
12.5°	4314.3	4284.9	4284.3	4326.7	4320.9
15°	3268.1	3228.7	3250.5	3239.9	3234.2
17.5°	2197.7	2182.5	2211.6	2202.8	2165.0
20°	1580.9	1584.8	1640.2	1612.4	1578.8
22.5°	1153.6	1167.8	1233.5	1161.8	1135.5
25°	768.1	797.1	866.1	776.9	752.3
27.5°	472.4	485.7	555.6	466.3	453.0
30°	293.9	287.2	320.2	274.8	256.1
32.5°	192.8	184.3	194.9	174.9	159.8
35°	128.9	131.7	123.5	122.6	103.5
37.5°	80.5	92.6	81.7	87.1	66.6
40°	52.0	67.2	57.8	63.8	49.0
42.5°	42.7	51.7	47.5	50.5	43.6
45°	33.9	42.1	42.1	42.1	34.2
47.5°	18.7	28.1	36.0	28.8	20.0
50°	10.6	14.2	27.8	14.8	11.2
52.5°	7.3	8.2	19.1	8.5	7.6
55°	5.4	5.7	10.3	6.1	5.7
57.5°	4.2	4.5	5.4	4.5	4.2
60°	3.3	3.3	4.0	3.6	3.3
62.5°	2.4	2.4	2.8	2.4	2.4
65°	1.8	1.8	1.8	1.8	1.8
67.5°	0.9	1.2	1.2	1.2	1.2
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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