

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: P739899

Luminaire Tested: LD4D05D010-EU4DR150210IC9040-4LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739899  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D05D010-EU4DR150210IC9040-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 632.4 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
CIE Type: Direct

Input Watts (W): 7.5  
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



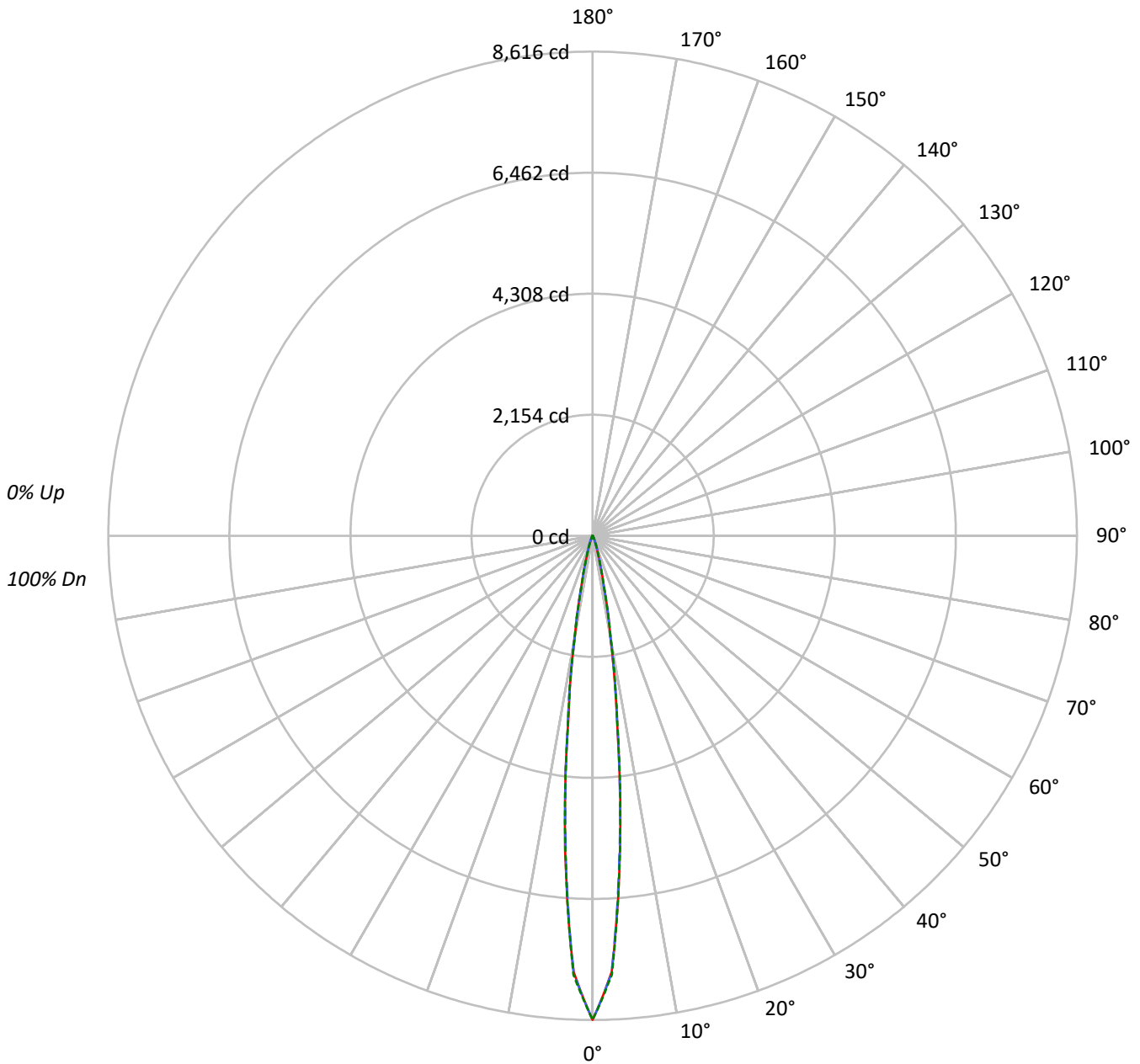
Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	969449	969449	969449
5°	569691	562323	566764
10°	170025	171219	173841
15°	42291	43116	41787
20°	12650	14654	12920
25°	4464	5679	4518
30°	1640	2157	1662
35°	821	930	792
40°	518	568	518
45°	385	406	385
50°	306	306	306
55°	251	251	251
60°	204	204	204
65°	157	157	157
70°	132	132	132
75°	83	83	113
80°	55	55	55
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 406 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	410.1	64.9
10°-20°	168.7	26.7
20°-30°	33.5	5.3
30°-40°	8.4	1.3
40°-50°	4.4	0.7
50°-60°	3.3	0.5
60°-70°	2.3	0.4
70°-80°	1.3	0.2
80°-90°	0.4	0.1
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°	612.3	96.8
0°-40°	620.7	98.2
0°-60°	628.3	99.4
0°-90°	632.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	632.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8616	8616	8616	8616	8616	
5°	5606	5548	5533	5571	5577	409
15°	487	496	496	488	481	167
25°	57	65	73	65	58	30
35°	11	12	13	12	11	8
45°	6	6	6	6	6	4
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	2	1
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°	8615.8	8615.8	8615.8	8615.8	8615.8
2.5°	7771.8	7778.4	7780.9	7788.6	7817.0
5°	5605.6	5548.0	5533.1	5571.4	5576.8
7.5°	3320.6	3332.2	3374.9	3384.4	3350.1
10°	1822.2	1837.2	1835.0	1848.1	1863.1
12.5°	931.9	920.2	916.6	931.5	910.7
15°	486.9	496.0	496.4	487.7	481.1
17.5°	261.9	272.5	290.0	275.7	253.9
20°	154.6	164.1	179.1	167.4	157.9
22.5°	95.6	103.2	113.8	104.7	97.0
25°	57.3	64.9	72.9	64.6	58.0
27.5°	33.9	40.5	45.6	40.1	33.6
30°	21.9	25.5	28.8	25.2	22.2
32.5°	15.3	16.8	18.2	16.8	15.3
35°	11.3	12.0	12.8	12.0	10.9
37.5°	8.8	9.5	9.8	9.1	8.4
40°	7.3	7.7	8.0	7.7	7.3
42.5°	6.2	6.6	6.6	6.6	6.2
45°	5.5	5.5	5.8	5.5	5.5
47.5°	4.7	4.7	5.1	4.7	4.7
50°	4.4	4.4	4.4	4.4	4.4
52.5°	4.0	4.0	4.0	4.0	4.0
55°	3.6	3.6	3.6	3.6	3.6
57.5°	3.3	3.3	3.3	3.3	3.3
60°	2.9	2.9	2.9	2.9	2.9
62.5°	2.6	2.6	2.6	2.6	2.6
65°	2.2	2.2	2.2	2.2	2.2
67.5°	2.2	2.2	2.2	2.2	2.2
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.5	1.5	1.5	1.5	1.5
75°	1.1	1.1	1.1	1.1	1.5
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.4	0.4	0.4	0.4	0.4
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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