

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P749926

Luminaire Tested: LD4D55D010-EU4DR3055659040-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749926  
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: LD4D55D010-EU4DR3055659040-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6246.8 lumens  
Efficiency: N/A  
Efficacy: 107.3 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

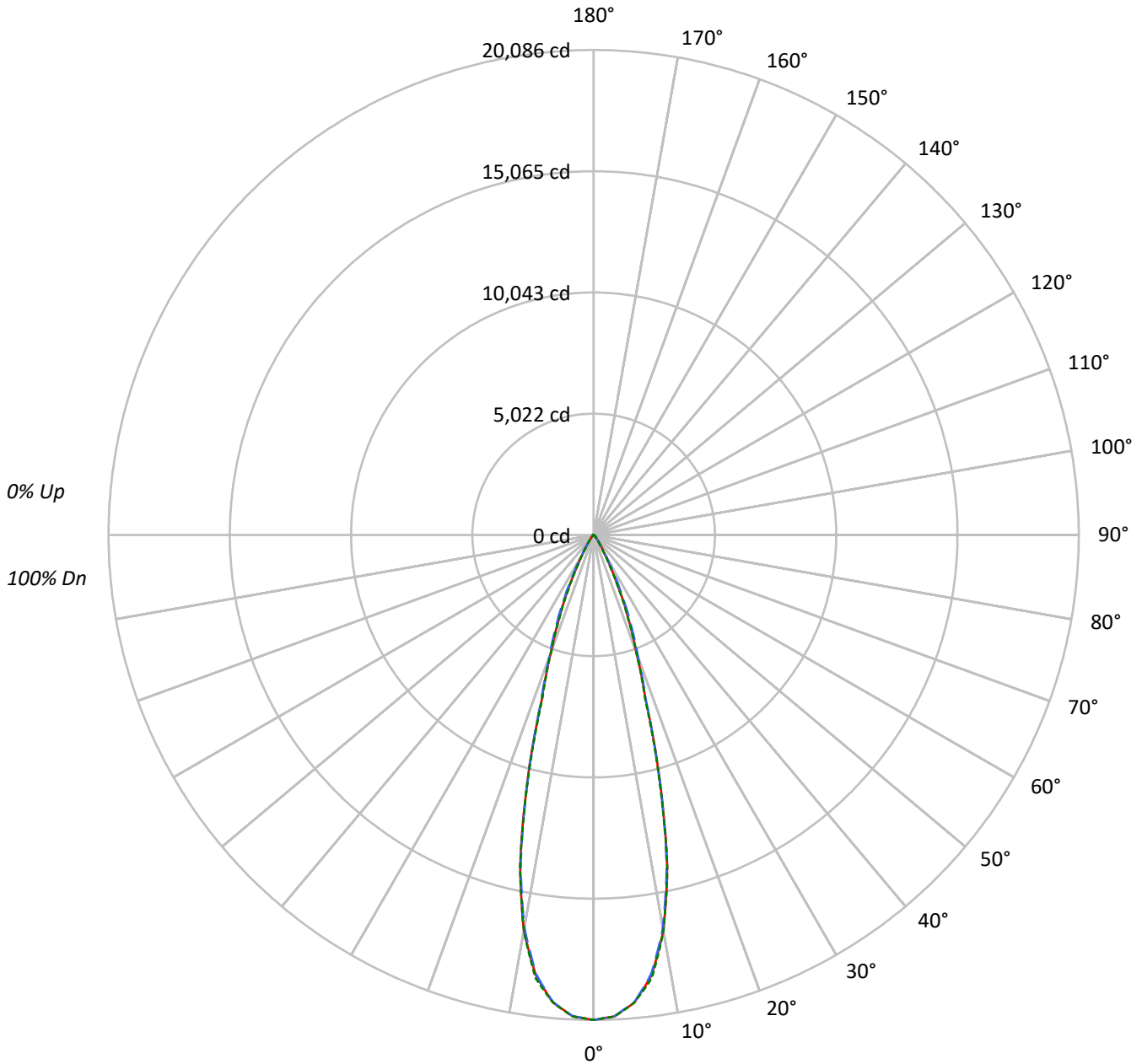
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1537474	1537474	1537474
5°	1493342	1491598	1493411
10°	1293455	1284338	1293152
15°	843920	839387	835164
20°	419644	435381	419082
25°	211386	238369	207053
30°	84637	92221	73739
35°	39255	37601	31518
40°	16946	18825	15967
45°	11961	14841	12059
50°	4108	10801	4346
55°	2375	4471	2496
60°	1653	1960	1653
65°	1069	1069	1069
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14841 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1766.3	28.3
10°-20°	2844.6	45.5
20°-30°	1229.2	19.7
30°-40°	280.2	4.5
40°-50°	96.2	1.5
50°-60°	23.5	0.4
60°-70°	6.1	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°	5840.1	93.5
0°-40°	6120.3	98.0
0°-60°	6240.0	99.9
0°-90°	6246.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6246.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	20086	20086	20086	20086	20086	
5°	19436	19417	19413	19453	19436	1768
15°	10650	10522	10592	10558	10539	2852
25°	2503	2598	2822	2532	2452	1198
35°	420	429	402	399	337	285
45°	110	137	137	137	111	78
55°	18	19	34	20	19	17
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°	20086.3	20086.3	20086.3	20086.3	20086.3
2.5°	19953.2	19939.4	19947.3	19957.1	19961.1
5°	19435.5	19416.7	19412.8	19453.2	19436.4
7.5°	18391.1	18364.5	18324.0	18415.8	18501.6
10°	16641.6	16612.0	16524.3	16567.7	16637.7
12.5°	14058.9	13963.2	13961.2	14099.3	14080.5
15°	10649.7	10521.5	10592.5	10557.9	10539.2
17.5°	7161.6	7112.3	7206.9	7178.3	7055.1
20°	5151.8	5164.6	5345.0	5254.3	5144.9
22.5°	3759.3	3805.6	4019.6	3785.9	3700.1
25°	2502.9	2597.6	2822.4	2531.5	2451.6
27.5°	1539.4	1582.8	1810.6	1519.7	1476.3
30°	957.6	935.9	1043.4	895.4	834.3
32.5°	628.2	600.6	635.1	570.0	520.7
35°	420.1	429.0	402.4	399.4	337.3
37.5°	262.3	301.8	266.3	284.0	217.0
40°	169.6	218.9	188.4	208.1	159.8
42.5°	139.1	168.6	154.8	164.7	142.0
45°	110.5	137.1	137.1	137.1	111.4
47.5°	61.1	91.7	117.4	93.7	65.1
50°	34.5	46.4	90.7	48.3	36.5
52.5°	23.7	26.6	62.1	27.6	24.7
55°	17.8	18.7	33.5	19.7	18.7
57.5°	13.8	14.8	17.8	14.8	13.8
60°	10.8	10.8	12.8	11.8	10.8
62.5°	7.9	7.9	8.9	7.9	7.9
65°	5.9	5.9	5.9	5.9	5.9
67.5°	3.0	3.9	3.9	3.9	3.9
70°	3.0	2.0	2.0	2.0	3.0
72.5°	2.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)