

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: P777301

Luminaire Tested: LERS4D05D010-EC4DR150210IC9030-4LBS1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P777301  
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: LERS4D05D010-EC4DR150210IC9030-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 675.5 lumens  
Efficiency: N/A  
Efficacy: 90.1 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 (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



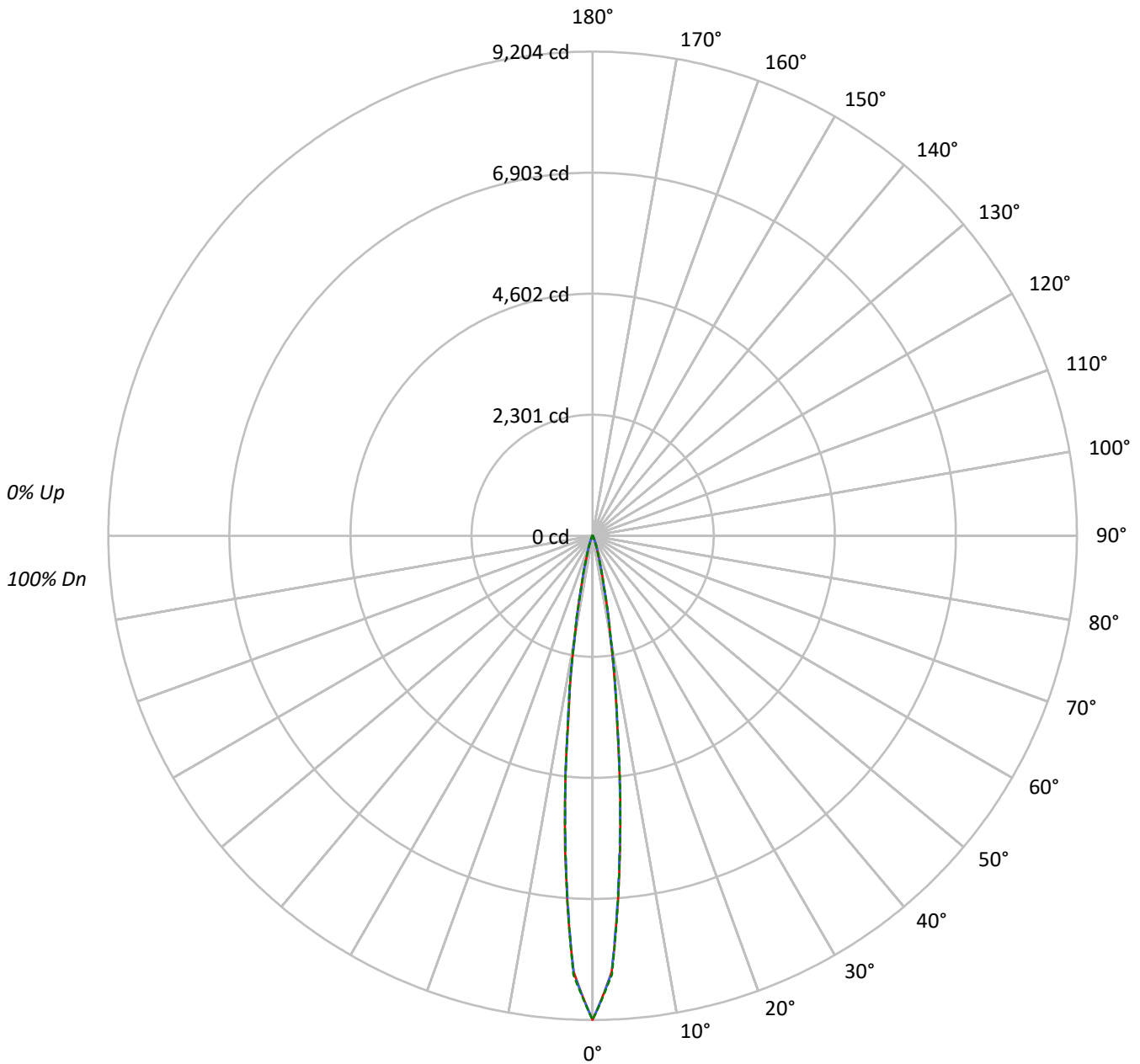
Downlight



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CATALOG NUMBER: LERS4D05D010-EC4DR150210IC9030-4LBS1H

### 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°	1035589	1035589	1035589
5°	608554	600678	605434
10°	181623	182902	185701
15°	45174	46060	44636
20°	13517	15653	13804
25°	4768	6068	4822
30°	1752	2306	1782
35°	879	988	850
40°	554	611	554
45°	406	434	406
50°	327	327	327
55°	271	271	271
60°	218	218	218
65°	164	164	164
70°	139	139	139
75°	91	91	121
80°	63	63	63
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 434 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.1	64.9
10°-20°	180.2	26.7
20°-30°	35.8	5.3
30°-40°	8.9	1.3
40°-50°	4.7	0.7
50°-60°	3.5	0.5
60°-70°	2.4	0.4
70°-80°	1.4	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
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0°-30°	654.1	96.8
0°-40°	663.0	98.2
0°-60°	671.2	99.4
0°-90°	675.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	675.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9204	9204	9204	9204	9204	
5°	5988	5926	5910	5951	5957	437
15°	520	530	530	521	514	178
25°	61	69	78	69	62	32
35°	12	13	14	13	12	8
45°	6	6	6	6	6	5
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°	9203.6	9203.6	9203.6	9203.6	9203.6
2.5°	8302.0	8309.0	8311.7	8319.9	8350.3
5°	5988.0	5926.5	5910.5	5951.4	5957.3
7.5°	3547.1	3559.5	3605.1	3615.3	3578.6
10°	1946.5	1962.5	1960.2	1974.2	1990.2
12.5°	995.5	983.0	979.1	995.1	972.9
15°	520.1	529.9	530.3	520.9	513.9
17.5°	279.7	291.0	309.7	294.6	271.2
20°	165.2	175.3	191.3	178.8	168.7
22.5°	102.1	110.3	121.6	111.8	103.6
25°	61.2	69.4	77.9	69.0	61.9
27.5°	36.2	43.2	48.7	42.9	35.8
30°	23.4	27.3	30.8	26.9	23.8
32.5°	16.4	17.9	19.5	17.9	16.4
35°	12.1	12.9	13.6	12.9	11.7
37.5°	9.4	10.1	10.5	9.7	9.0
40°	7.8	8.2	8.6	8.2	7.8
42.5°	6.6	7.0	7.0	7.0	6.6
45°	5.8	5.8	6.2	5.8	5.8
47.5°	5.1	5.1	5.5	5.1	5.1
50°	4.7	4.7	4.7	4.7	4.7
52.5°	4.3	4.3	4.3	4.3	4.3
55°	3.9	3.9	3.9	3.9	3.9
57.5°	3.5	3.5	3.5	3.5	3.5
60°	3.1	3.1	3.1	3.1	3.1
62.5°	2.7	2.7	2.7	2.7	2.7
65°	2.3	2.3	2.3	2.3	2.3
67.5°	2.3	2.3	2.3	2.3	2.3
70°	1.9	1.9	1.9	1.9	1.9
72.5°	1.6	1.6	1.6	1.6	1.6
75°	1.2	1.2	1.2	1.2	1.6
77.5°	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
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

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Scaled Data Report



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Scaled Data Report







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

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(END OF REPORT)