

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: P777309

Luminaire Tested: LERS4D05D010-EC4DR150210IC9040-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777309
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-EC4DR150210IC9040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 732.8 lumens
Efficiency: N/A
Efficacy: 97.7 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_{in}): 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



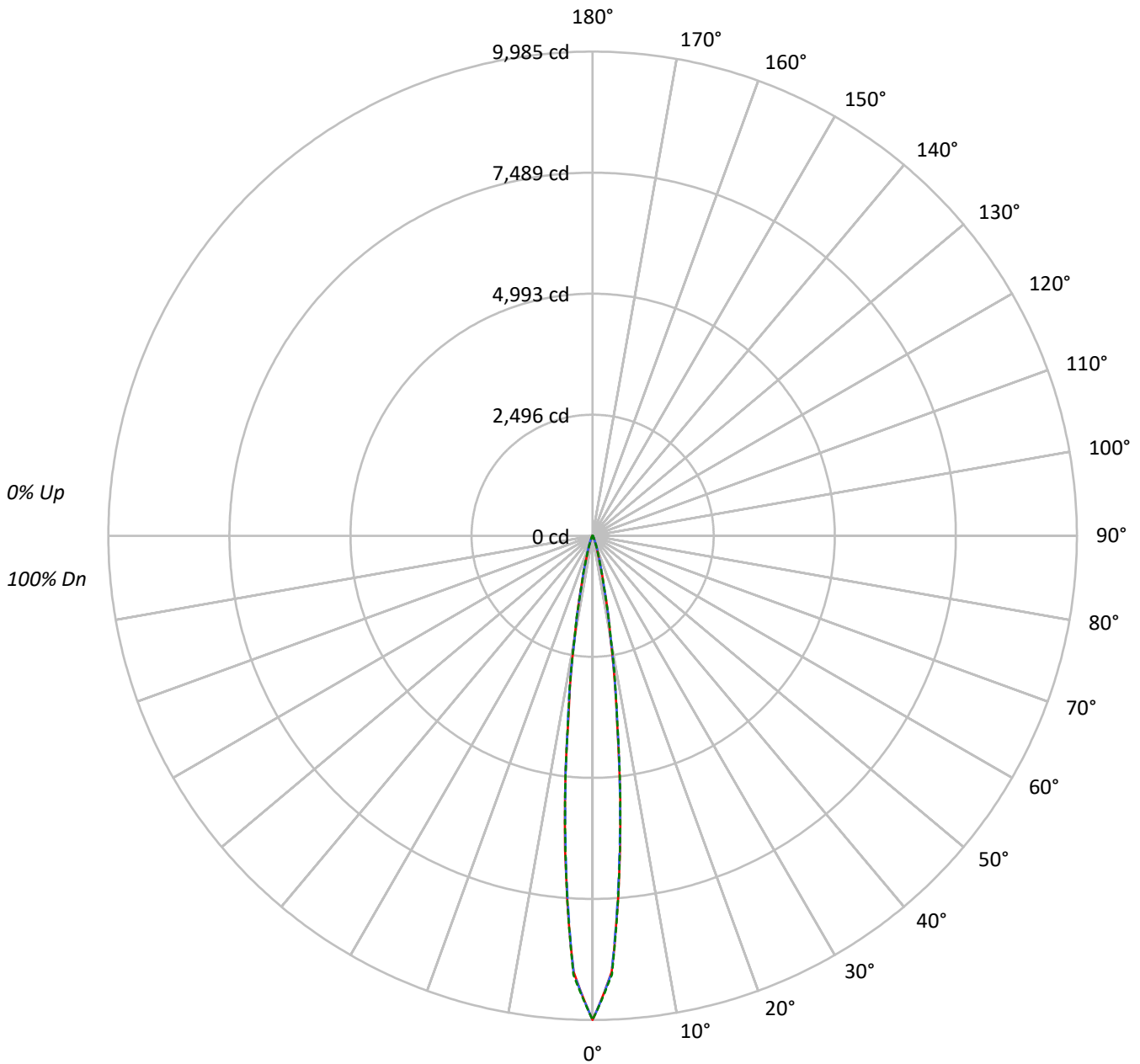
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1123467	1123467	1123467
5°	660202	651655	656807
10°	197038	198419	201460
15°	49013	49969	48423
20°	14663	16978	14974
25°	5173	6583	5235
30°	1902	2501	1932
35°	951	1075	922
40°	604	660	604
45°	441	476	441
50°	355	355	355
55°	292	292	292
60°	239	239	239
65°	178	178	178
70°	154	154	154
75°	98	98	128
80°	63	63	63
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 476 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.3	64.9
10°-20°	195.5	26.7
20°-30°	38.8	5.3
30°-40°	9.7	1.3
40°-50°	5.1	0.7
50°-60°	3.8	0.5
60°-70°	2.7	0.4
70°-80°	1.5	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°	709.6	96.8
0°-40°	719.3	98.2
0°-60°	728.2	99.4
0°-90°	732.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	732.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9985	9985	9985	9985	9985	
5°	6496	6429	6412	6456	6463	474
15°	564	575	575	565	558	193
25°	66	75	84	75	67	35
35°	13	14	15	14	13	9
45°	6	6	7	6	6	5
55°	4	4	4	4	4	4
65°	2	2	2	2	2	3
75°	1	1	1	1	2	2
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°	9984.6	9984.6	9984.6	9984.6	9984.6
2.5°	9006.5	9014.1	9017.1	9026.0	9058.9
5°	6496.2	6429.4	6412.1	6456.5	6462.8
7.5°	3848.1	3861.6	3911.1	3922.1	3882.3
10°	2111.7	2129.1	2126.5	2141.7	2159.1
12.5°	1080.0	1066.4	1062.2	1079.5	1055.4
15°	564.3	574.8	575.3	565.1	557.5
17.5°	303.5	315.7	336.0	319.5	294.2
20°	179.2	190.2	207.5	194.0	183.0
22.5°	110.7	119.6	131.9	121.3	112.4
25°	66.4	75.2	84.5	74.8	67.2
27.5°	39.3	46.9	52.8	46.5	38.9
30°	25.4	29.6	33.4	29.2	25.8
32.5°	17.8	19.4	21.1	19.4	17.8
35°	13.1	13.9	14.8	13.9	12.7
37.5°	10.1	11.0	11.4	10.6	9.7
40°	8.5	8.9	9.3	8.9	8.5
42.5°	7.2	7.6	7.6	7.6	7.2
45°	6.3	6.3	6.8	6.3	6.3
47.5°	5.5	5.5	5.9	5.5	5.5
50°	5.1	5.1	5.1	5.1	5.1
52.5°	4.6	4.6	4.6	4.6	4.6
55°	4.2	4.2	4.2	4.2	4.2
57.5°	3.8	3.8	3.8	3.8	3.8
60°	3.4	3.4	3.4	3.4	3.4
62.5°	3.0	3.0	3.0	3.0	3.0
65°	2.5	2.5	2.5	2.5	2.5
67.5°	2.5	2.5	2.5	2.5	2.5
70°	2.1	2.1	2.1	2.1	2.1
72.5°	1.7	1.7	1.7	1.7	1.7
75°	1.3	1.3	1.3	1.3	1.7
77.5°	1.3	1.3	1.3	1.3	1.3
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

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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