

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: P751434

Luminaire Tested: LD4D65D010-EU4DR3055659024-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751434
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: LD4D65D010-EU4DR3055659024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6154.4 lumens
Efficiency: N/A
Efficacy: 84.5 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

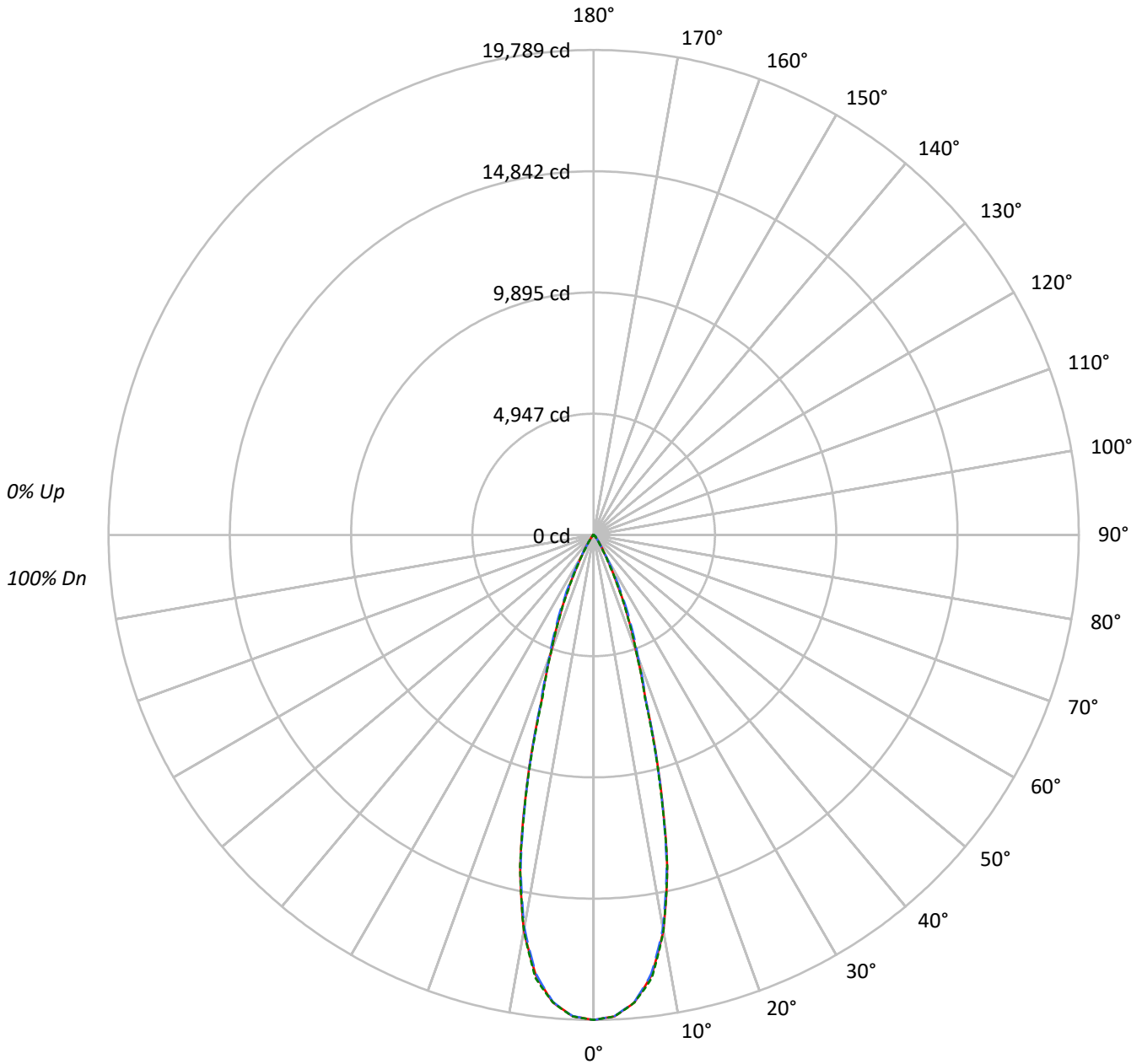
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1514740	1514740	1514740
5°	1471252	1469538	1471328
10°	1274327	1265342	1274024
15°	831439	826970	822810
20°	413437	428946	412883
25°	208261	234848	203996
30°	83382	90851	72652
35°	38676	37041	31051
40°	16697	18545	15727
45°	11777	14624	11886
50°	4049	10646	4275
55°	2335	4404	2469
60°	1638	1929	1638
65°	1050	1050	1050
70°	649	425	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14624 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1740.2	28.3
10°-20°	2802.6	45.5
20°-30°	1211.1	19.7
30°-40°	276.0	4.5
40°-50°	94.8	1.5
50°-60°	23.2	0.4
60°-70°	6.0	0.1
70°-80°	0.6	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°	5753.8	93.5
0°-40°	6029.8	98.0
0°-60°	6147.7	99.9
0°-90°	6154.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6154.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19789	19789	19789	19789	19789	
5°	19148	19130	19126	19166	19149	1742
15°	10492	10366	10436	10402	10383	2809
25°	2466	2559	2781	2494	2415	1180
35°	414	423	396	394	332	281
45°	109	135	135	135	110	77
55°	18	18	33	19	18	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°	19789.3	19789.3	19789.3	19789.3	19789.3
2.5°	19658.1	19644.5	19652.3	19662.0	19665.9
5°	19148.0	19129.6	19125.7	19165.5	19149.0
7.5°	18119.1	18092.9	18053.1	18143.4	18227.9
10°	16395.5	16366.4	16279.9	16322.7	16391.6
12.5°	13850.9	13756.7	13754.8	13890.8	13872.3
15°	10492.2	10365.9	10435.8	10401.8	10383.3
17.5°	7055.7	7007.1	7100.4	7072.2	6950.7
20°	5075.6	5088.2	5266.0	5176.6	5068.8
22.5°	3703.7	3749.4	3960.2	3729.9	3645.4
25°	2465.9	2559.2	2780.7	2494.1	2415.4
27.5°	1516.6	1559.4	1783.8	1497.2	1454.5
30°	943.4	922.0	1027.9	882.2	822.0
32.5°	618.9	591.7	625.7	561.6	513.0
35°	413.9	422.6	396.4	393.5	332.3
37.5°	258.4	297.3	262.3	279.8	213.7
40°	167.1	215.7	185.6	205.0	157.4
42.5°	137.0	166.1	152.5	162.3	139.9
45°	108.8	135.1	135.1	135.1	109.8
47.5°	60.2	90.4	115.6	92.3	64.1
50°	34.0	45.7	89.4	47.6	35.9
52.5°	23.3	26.2	61.2	27.2	24.3
55°	17.5	18.5	33.0	19.4	18.5
57.5°	13.6	14.6	17.5	14.6	13.6
60°	10.7	10.7	12.6	11.7	10.7
62.5°	7.8	7.8	8.7	7.8	7.8
65°	5.8	5.8	5.8	5.8	5.8
67.5°	2.9	3.9	3.9	3.9	3.9
70°	2.9	1.9	1.9	1.9	2.9
72.5°	1.9	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

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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