

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: P751494

Luminaire Tested: LD4D65D010-EU4DR3055659050-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751494
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-EU4DR3055659050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6922.8 lumens
Efficiency: N/A
Efficacy: 95.1 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

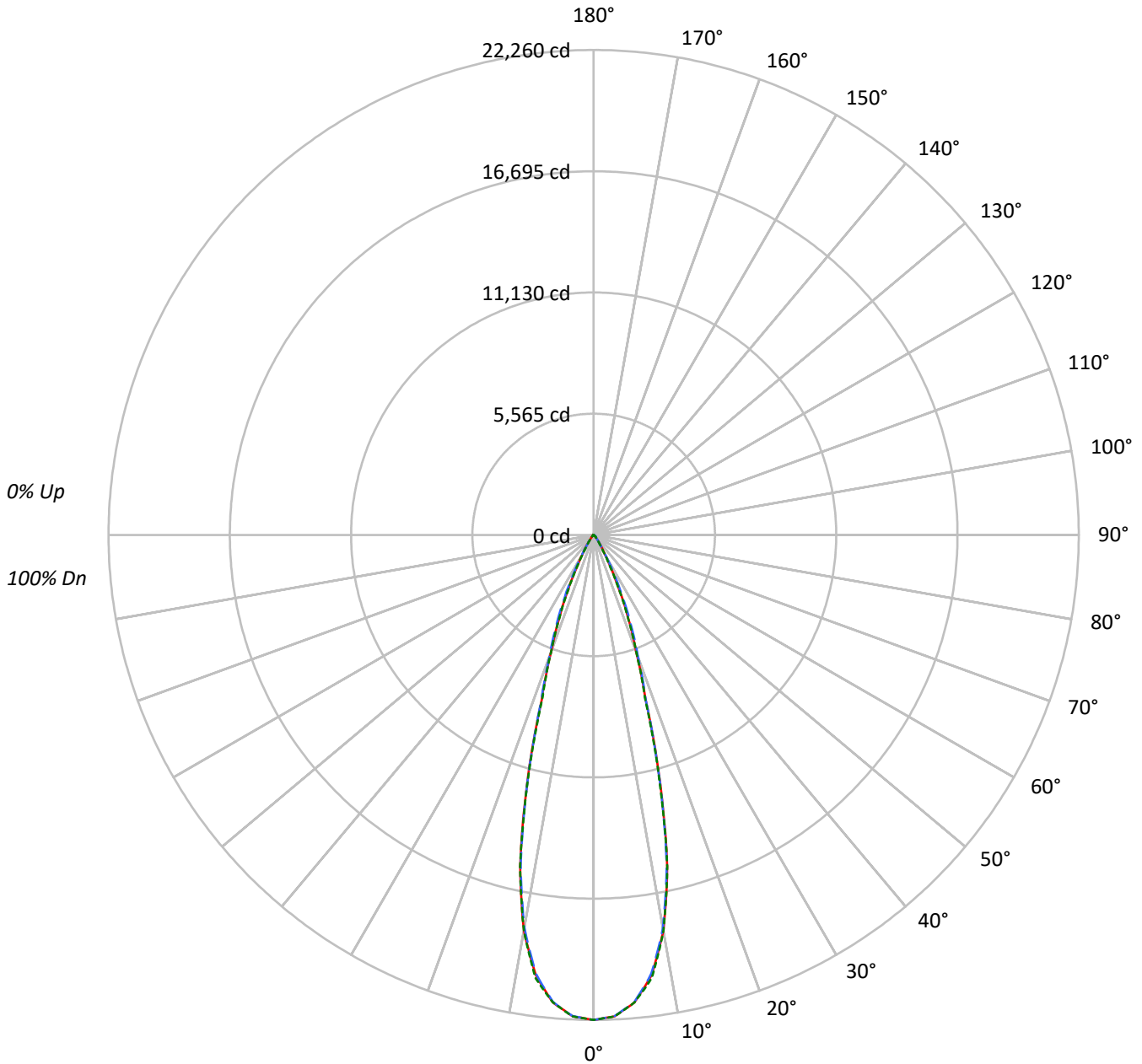
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1703856	1703856	1703856
5°	1654943	1653014	1655027
10°	1433429	1423324	1433094
15°	935240	930216	925541
20°	465055	482503	464428
25°	234265	264171	229459
30°	93794	102199	81720
35°	43507	41666	34929
40°	18785	20853	17686
45°	13250	16443	13369
50°	4561	11968	4811
55°	2629	4964	2776
60°	1837	2174	1837
65°	1195	1195	1195
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16443 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1957.4	28.3
10°-20°	3152.5	45.5
20°-30°	1362.3	19.7
30°-40°	310.5	4.5
40°-50°	106.6	1.5
50°-60°	26.1	0.4
60°-70°	6.8	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°	6472.2	93.5
0°-40°	6782.6	98.0
0°-60°	6915.3	99.9
0°-90°	6922.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6922.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22260	22260	22260	22260	22260	
5°	21539	21518	21514	21558	21540	1959
15°	11802	11660	11739	11700	11680	3160
25°	2774	2879	3128	2806	2717	1328
35°	466	475	446	443	374	316
45°	122	152	152	152	124	87
55°	20	21	37	22	21	19
65°	7	7	7	7	7	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°	22260.0	22260.0	22260.0	22260.0	22260.0
2.5°	22112.5	22097.2	22105.9	22116.8	22121.2
5°	21538.7	21517.9	21513.6	21558.4	21539.8
7.5°	20381.3	20351.8	20307.0	20408.7	20503.7
10°	18442.5	18409.8	18312.5	18360.6	18438.2
12.5°	15580.3	15474.2	15472.1	15625.1	15604.3
15°	11802.1	11660.1	11738.7	11700.5	11679.7
17.5°	7936.6	7881.9	7986.8	7955.2	7818.5
20°	5709.3	5723.5	5923.5	5822.9	5701.6
22.5°	4166.1	4217.5	4454.6	4195.6	4100.5
25°	2773.8	2878.7	3127.9	2805.5	2716.9
27.5°	1706.0	1754.1	2006.5	1684.1	1636.1
30°	1061.2	1037.2	1156.3	992.3	924.6
32.5°	696.2	665.6	703.8	631.7	577.0
35°	465.6	475.4	445.9	442.6	373.8
37.5°	290.7	334.4	295.1	314.8	240.4
40°	188.0	242.6	208.7	230.6	177.0
42.5°	154.1	186.9	171.6	182.5	157.4
45°	122.4	151.9	151.9	151.9	123.5
47.5°	67.8	101.6	130.1	103.8	72.1
50°	38.3	51.4	100.5	53.6	40.4
52.5°	26.2	29.5	68.9	30.6	27.3
55°	19.7	20.8	37.2	21.9	20.8
57.5°	15.3	16.4	19.7	16.4	15.3
60°	12.0	12.0	14.2	13.1	12.0
62.5°	8.7	8.7	9.8	8.7	8.7
65°	6.6	6.6	6.6	6.6	6.6
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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