

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: P750680

Luminaire Tested: LD4D60D010-EU4DR3055659030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750680
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: LD4D60D010-EU4DR3055659030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6494.0 lumens
Efficiency: N/A
Efficacy: 100.8 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): 64.4
Input Voltage (V): NR
Input Current (Ain): 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

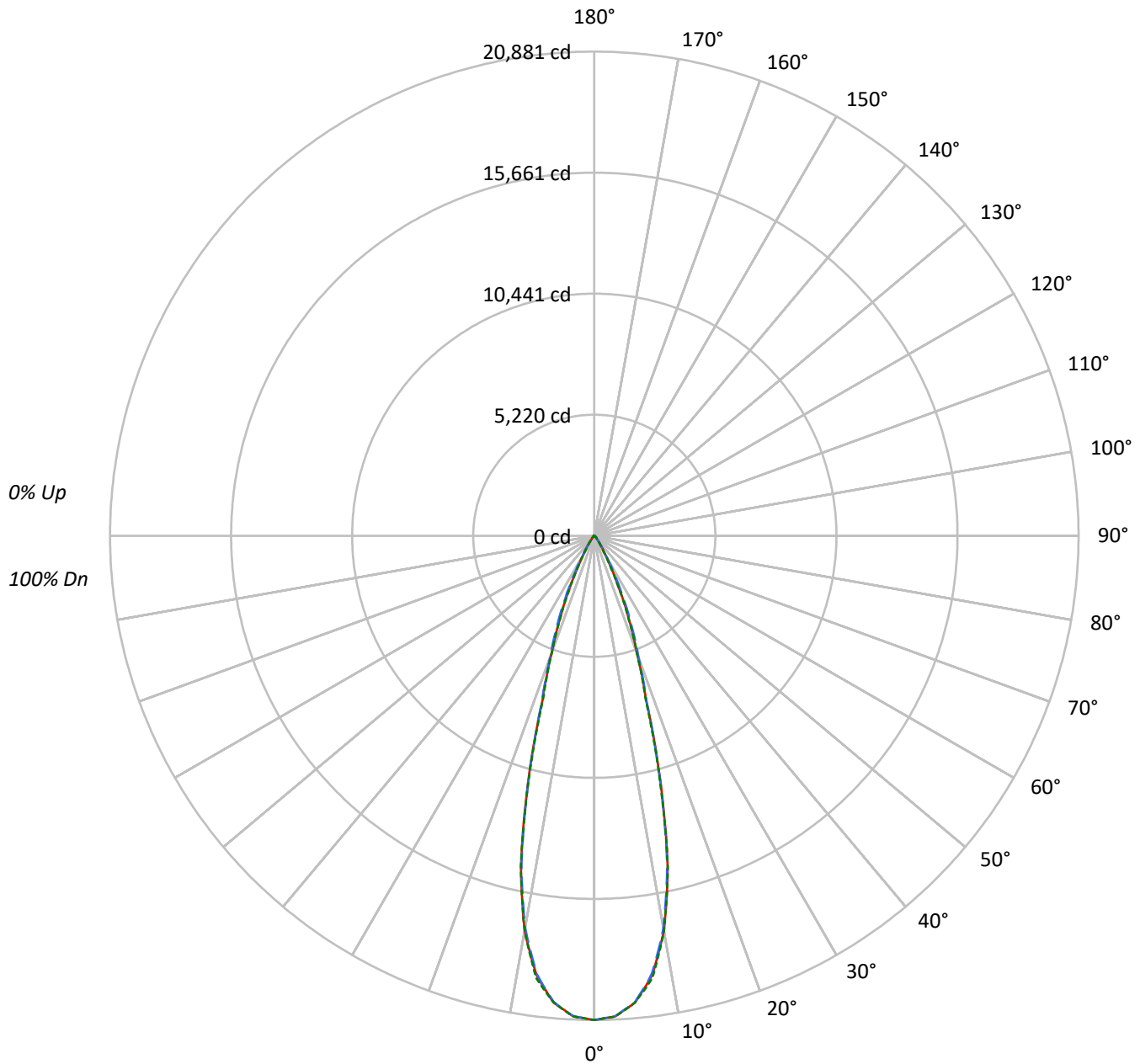


Downlight

TEST NUMBER: P750680

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1598326	1598326	1598326
5°	1552444	1550631	1552521
10°	1344652	1335170	1344333
15°	877313	872606	868216
20°	436245	452617	435666
25°	219755	247803	215245
30°	87987	95871	76656
35°	40806	39087	32761
40°	17616	19564	16597
45°	12427	15425	12535
50°	4275	11229	4513
55°	2469	4657	2602
60°	1730	2036	1730
65°	1123	1123	1123
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15425 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1836.2	28.3
10°-20°	2957.2	45.5
20°-30°	1277.9	19.7
30°-40°	291.3	4.5
40°-50°	100.0	1.5
50°-60°	24.4	0.4
60°-70°	6.3	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°	6071.3	93.5
0°-40°	6362.5	98.0
0°-60°	6487.0	99.9
0°-90°	6494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20881	20881	20881	20881	20881	
5°	20205	20185	20181	20223	20206	1838
15°	11071	10938	11012	10976	10956	2964
25°	2602	2700	2934	2632	2549	1245
35°	437	446	418	415	351	296
45°	115	142	142	142	116	82
55°	18	20	35	20	20	18
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20881.3	20881.3	20881.3	20881.3	20881.3
2.5°	20742.9	20728.5	20736.7	20747.0	20751.1
5°	20204.7	20185.2	20181.1	20223.1	20205.7
7.5°	19119.0	19091.3	19049.3	19144.6	19233.8
10°	17300.3	17269.5	17178.3	17223.4	17296.2
12.5°	14615.3	14515.8	14513.8	14657.3	14637.8
15°	11071.1	10937.9	11011.7	10975.8	10956.3
17.5°	7445.0	7393.7	7492.2	7462.4	7334.3
20°	5355.6	5369.0	5556.6	5462.3	5348.5
22.5°	3908.1	3956.2	4178.7	3935.7	3846.6
25°	2602.0	2700.4	2934.1	2631.7	2548.6
27.5°	1600.3	1645.4	1882.3	1579.8	1534.7
30°	995.5	972.9	1084.7	930.9	867.3
32.5°	653.1	624.3	660.2	592.6	541.3
35°	436.7	446.0	418.3	415.2	350.6
37.5°	272.7	313.7	276.8	295.3	225.5
40°	176.3	227.6	195.8	216.3	166.1
42.5°	144.6	175.3	161.0	171.2	147.6
45°	114.8	142.5	142.5	142.5	115.8
47.5°	63.6	95.3	122.0	97.4	67.7
50°	35.9	48.2	94.3	50.2	37.9
52.5°	24.6	27.7	64.6	28.7	25.6
55°	18.5	19.5	34.9	20.5	19.5
57.5°	14.4	15.4	18.5	15.4	14.4
60°	11.3	11.3	13.3	12.3	11.3
62.5°	8.2	8.2	9.2	8.2	8.2
65°	6.2	6.2	6.2	6.2	6.2
67.5°	3.1	4.1	4.1	4.1	4.1
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)