

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: P750688

Luminaire Tested: LD4D60D010-EU4DR3055659035-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750688
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-EU4DR3055659035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5937.4 lumens
Efficiency: N/A
Efficacy: 92.2 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

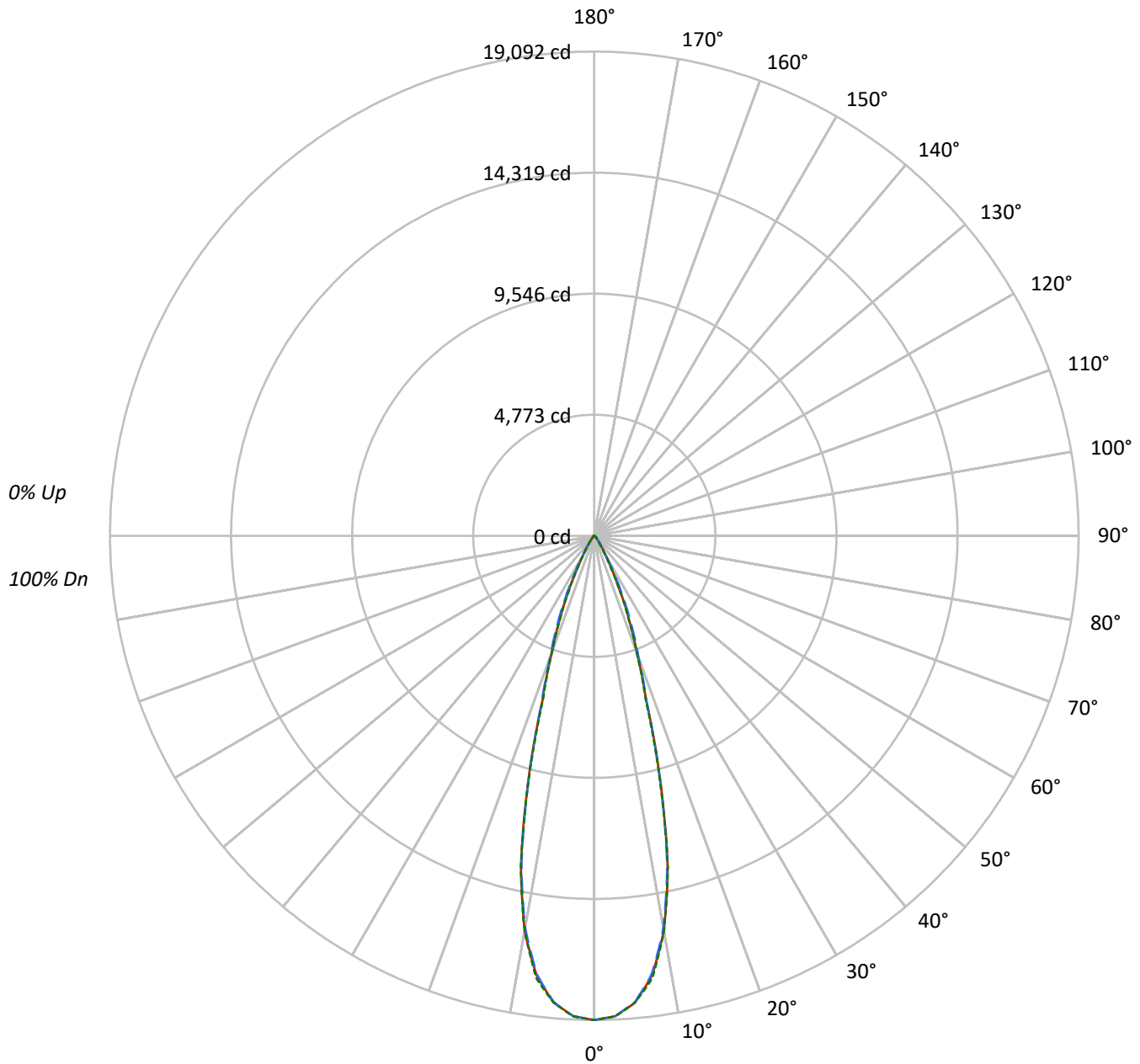


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1461336	1461336	1461336
5°	1419387	1417728	1419457
10°	1229403	1220729	1229107
15°	802127	797816	793806
20°	398856	413820	398327
25°	200922	226562	196800
30°	80448	87651	70089
35°	37311	35732	29958
40°	16107	17886	15168
45°	11366	14105	11464
50°	3906	10265	4132
55°	2255	4257	2375
60°	1577	1868	1577
65°	1014	1014	1014
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14105 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1678.8	28.3
10°-20°	2703.7	45.5
20°-30°	1168.4	19.7
30°-40°	266.3	4.5
40°-50°	91.4	1.5
50°-60°	22.3	0.4
60°-70°	5.8	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°	5550.9	93.5
0°-40°	5817.2	98.0
0°-60°	5931.0	99.9
0°-90°	5937.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5937.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19092	19092	19092	19092	19092	
5°	18473	18455	18451	18490	18474	1680
15°	10122	10000	10068	10035	10017	2710
25°	2379	2469	2683	2406	2330	1139
35°	399	408	382	380	321	271
45°	105	130	130	130	106	75
55°	17	18	32	19	18	16
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°	19091.6	19091.6	19091.6	19091.6	19091.6
2.5°	18965.1	18951.9	18959.4	18968.8	18972.6
5°	18473.0	18455.1	18451.4	18489.8	18473.9
7.5°	17480.3	17455.0	17416.6	17503.8	17585.3
10°	15817.5	15789.4	15705.9	15747.2	15813.7
12.5°	13362.6	13271.7	13269.8	13401.0	13383.2
15°	10122.3	10000.4	10067.9	10035.1	10017.3
17.5°	6806.9	6760.0	6850.0	6822.8	6705.7
20°	4896.6	4908.8	5080.3	4994.1	4890.1
22.5°	3573.1	3617.2	3820.6	3598.4	3516.9
25°	2379.0	2468.9	2682.6	2406.1	2330.2
27.5°	1463.2	1504.4	1720.9	1444.4	1403.2
30°	910.2	889.5	991.7	851.1	793.0
32.5°	597.1	570.8	603.6	541.8	494.9
35°	399.3	407.7	382.4	379.6	320.6
37.5°	249.3	286.8	253.1	270.0	206.2
40°	161.2	208.1	179.0	197.8	151.8
42.5°	132.2	160.3	147.2	156.5	135.0
45°	105.0	130.3	130.3	130.3	105.9
47.5°	58.1	87.2	111.5	89.0	61.9
50°	32.8	44.1	86.2	45.9	34.7
52.5°	22.5	25.3	59.1	26.2	23.4
55°	16.9	17.8	31.9	18.7	17.8
57.5°	13.1	14.1	16.9	14.1	13.1
60°	10.3	10.3	12.2	11.2	10.3
62.5°	7.5	7.5	8.4	7.5	7.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	2.8	3.7	3.7	3.7	3.7
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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)