

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: P753045

Luminaire Tested: LD4D75BD010-EU4DR3070959040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753045
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: LD4D75BD010-EU4DR3070959040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7795.1 lumens
Efficiency: N/A
Efficacy: 107.7 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): 72.4
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

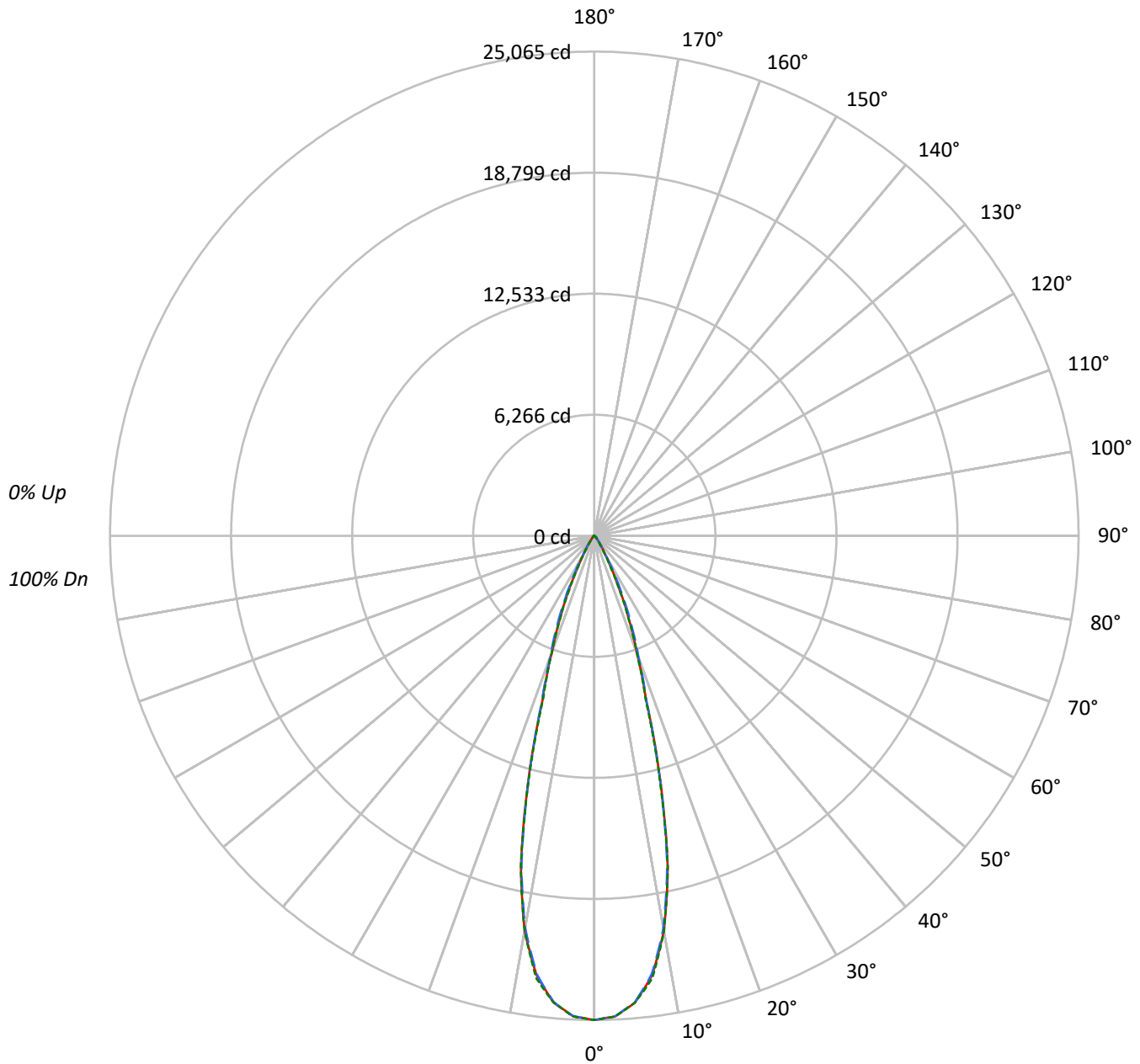


Downlight

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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					0
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°	1918568	1918568	1918568
5°	1863490	1861316	1863583
10°	1614060	1602681	1613679
15°	1053099	1047441	1042172
20°	523655	543302	522954
25°	263782	297455	258377
30°	105611	115077	92017
35°	48982	46917	39330
40°	21153	23481	19924
45°	14917	18521	15057
50°	5132	13480	5418
55°	2963	5578	3123
60°	2067	2449	2067
65°	1340	1340	1340
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 18521 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2204.1	28.3
10°-20°	3549.7	45.5
20°-30°	1533.9	19.7
30°-40°	349.6	4.5
40°-50°	120.0	1.5
50°-60°	29.3	0.4
60°-70°	7.6	0.1
70°-80°	0.8	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°	7287.7	93.5
0°-40°	7637.3	98.0
0°-60°	7786.7	99.9
0°-90°	7795.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7795.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25065	25065	25065	25065	25065	
5°	24253	24230	24225	24275	24254	2206
15°	13289	13129	13218	13175	13152	3558
25°	3123	3241	3522	3159	3059	1495
35°	524	535	502	498	421	356
45°	138	171	171	171	139	98
55°	22	23	42	25	23	22
65°	7	7	7	7	7	7
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°	25065.1	25065.1	25065.1	25065.1	25065.1
2.5°	24898.9	24881.7	24891.6	24903.9	24908.8
5°	24252.9	24229.5	24224.6	24275.0	24254.1
7.5°	22949.6	22916.4	22866.0	22980.4	23087.5
10°	20766.5	20729.6	20620.1	20674.3	20761.6
12.5°	17543.6	17424.2	17421.7	17594.0	17570.7
15°	13289.4	13129.4	13218.0	13174.9	13151.5
17.5°	8936.7	8875.2	8993.3	8957.6	8803.8
20°	6428.7	6444.7	6669.9	6556.7	6420.1
22.5°	4691.1	4748.9	5016.0	4724.3	4617.2
25°	3123.3	3241.4	3522.0	3159.0	3059.3
27.5°	1921.0	1975.1	2259.4	1896.4	1842.2
30°	1194.9	1167.8	1302.0	1117.4	1041.1
32.5°	783.9	749.4	792.5	711.3	649.8
35°	524.2	535.3	502.1	498.4	420.9
37.5°	327.3	376.6	332.3	354.4	270.7
40°	211.7	273.2	235.0	259.7	199.4
42.5°	173.5	210.4	193.2	205.5	177.2
45°	137.8	171.1	171.1	171.1	139.1
47.5°	76.3	114.4	146.4	116.9	81.2
50°	43.1	57.8	113.2	60.3	45.5
52.5°	29.5	33.2	77.5	34.5	30.8
55°	22.2	23.4	41.8	24.6	23.4
57.5°	17.2	18.5	22.2	18.5	17.2
60°	13.5	13.5	16.0	14.8	13.5
62.5°	9.8	9.8	11.1	9.8	9.8
65°	7.4	7.4	7.4	7.4	7.4
67.5°	3.7	4.9	4.9	4.9	4.9
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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)