

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: P753056

Luminaire Tested: LD4D75BD010-EU4DR3070959050-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753056
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-EU4DR3070959050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6653.2 lumens
Efficiency: N/A
Efficacy: 91.9 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

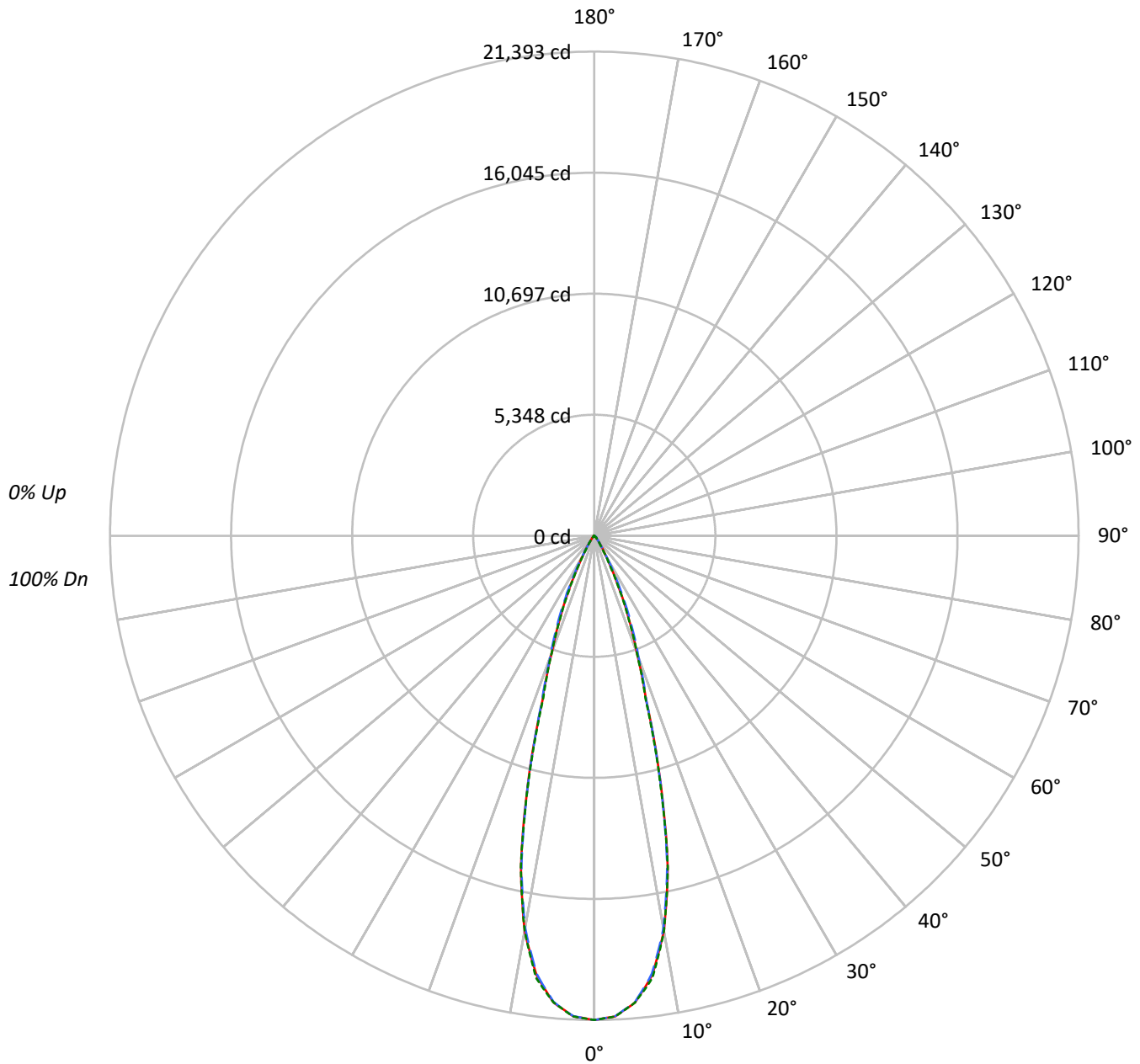


Downlight

TEST NUMBER: P753056

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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°	1637508	1637508	1637508
5°	1590501	1588641	1590577
10°	1377615	1367899	1377288
15°	898828	893994	889501
20°	446940	463711	446345
25°	225135	253884	220524
30°	90144	98222	78539
35°	41806	40040	33564
40°	18056	20044	17006
45°	12730	15804	12849
50°	4382	11503	4632
55°	2522	4764	2669
60°	1776	2097	1776
65°	1141	1141	1141
70°	716	470	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 15804 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1881.2	28.3
10°-20°	3029.7	45.5
20°-30°	1309.2	19.7
30°-40°	298.4	4.5
40°-50°	102.5	1.5
50°-60°	25.0	0.4
60°-70°	6.5	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°	6220.1	93.5
0°-40°	6518.5	98.0
0°-60°	6646.0	99.9
0°-90°	6653.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6653.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21393	21393	21393	21393	21393	
5°	20700	20680	20676	20719	20701	1883
15°	11343	11206	11282	11245	11225	3037
25°	2666	2767	3006	2696	2611	1276
35°	447	457	428	425	359	304
45°	118	146	146	146	119	83
55°	19	20	36	21	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°	21393.2	21393.2	21393.2	21393.2	21393.2
2.5°	21251.4	21236.7	21245.1	21255.6	21259.8
5°	20700.0	20680.0	20675.8	20718.9	20701.0
7.5°	19587.7	19559.3	19516.3	19613.9	19705.3
10°	17724.4	17692.9	17599.4	17645.6	17720.2
12.5°	14973.6	14871.7	14869.6	15016.6	14996.7
15°	11342.6	11206.0	11281.6	11244.9	11224.9
17.5°	7627.5	7575.0	7675.8	7645.4	7514.1
20°	5486.9	5500.6	5692.8	5596.2	5479.6
22.5°	4003.9	4053.2	4281.2	4032.2	3940.9
25°	2665.7	2766.6	3006.1	2696.2	2611.1
27.5°	1639.6	1685.8	1928.4	1618.6	1572.3
30°	1019.9	996.8	1111.3	953.7	888.6
32.5°	669.1	639.7	676.4	607.1	554.6
35°	447.4	456.9	428.5	425.4	359.2
37.5°	279.4	321.4	283.6	302.5	231.1
40°	180.7	233.2	200.6	221.6	170.2
42.5°	148.1	179.6	164.9	175.4	151.2
45°	117.6	146.0	146.0	146.0	118.7
47.5°	65.1	97.7	125.0	99.8	69.3
50°	36.8	49.4	96.6	51.5	38.9
52.5°	25.2	28.4	66.2	29.4	26.3
55°	18.9	20.0	35.7	21.0	20.0
57.5°	14.7	15.8	18.9	15.8	14.7
60°	11.6	11.6	13.7	12.6	11.6
62.5°	8.4	8.4	9.5	8.4	8.4
65°	6.3	6.3	6.3	6.3	6.3
67.5°	3.2	4.2	4.2	4.2	4.2
70°	3.2	2.1	2.1	2.1	3.2
72.5°	2.1	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



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)