

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: P753002

Luminaire Tested: LD4D75BD010-EU4DR3070959027-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753002
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-EU4DR3070959027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6795.5 lumens
Efficiency: N/A
Efficacy: 93.9 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

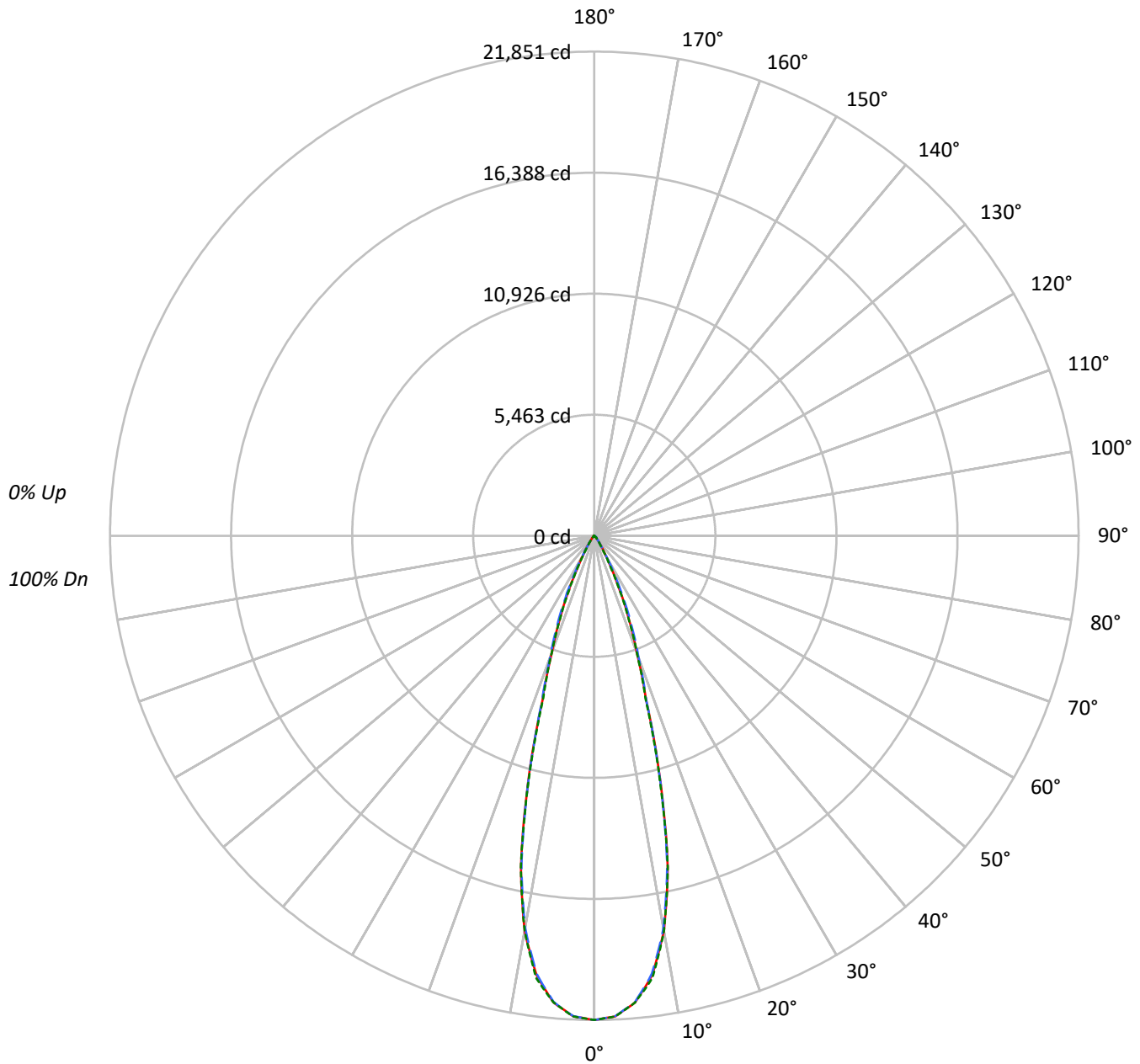


Downlight

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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°	1672534	1672534	1672534
5°	1624524	1622626	1624608
10°	1407080	1397162	1406754
15°	918052	913123	908527
20°	456503	473633	455892
25°	229958	259315	225245
30°	92070	100317	80218
35°	42703	40900	34284
40°	18435	20474	17366
45°	13011	16140	13120
50°	4466	11753	4727
55°	2576	4871	2722
60°	1806	2128	1806
65°	1159	1159	1159
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: 16140 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1921.4	28.3
10°-20°	3094.5	45.5
20°-30°	1337.2	19.7
30°-40°	304.8	4.5
40°-50°	104.6	1.5
50°-60°	25.6	0.4
60°-70°	6.6	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°	6353.2	93.5
0°-40°	6658.0	98.0
0°-60°	6788.2	99.9
0°-90°	6795.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6795.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21851	21851	21851	21851	21851	
5°	21143	21122	21118	21162	21144	1923
15°	11585	11446	11523	11485	11465	3102
25°	2723	2826	3070	2754	2667	1303
35°	457	467	438	434	367	310
45°	120	149	149	149	121	85
55°	19	20	36	22	20	19
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°	21850.8	21850.8	21850.8	21850.8	21850.8
2.5°	21706.0	21691.0	21699.6	21710.3	21714.6
5°	21142.8	21122.4	21118.1	21162.1	21143.9
7.5°	20006.7	19977.7	19933.7	20033.5	20126.8
10°	18103.5	18071.4	17975.9	18023.1	18099.3
12.5°	15293.9	15189.8	15187.7	15337.9	15317.5
15°	11585.2	11445.7	11523.0	11485.4	11465.0
17.5°	7790.7	7737.1	7840.0	7808.9	7674.8
20°	5604.3	5618.3	5814.6	5715.9	5596.8
22.5°	4089.5	4139.9	4372.7	4118.5	4025.2
25°	2722.8	2825.8	3070.4	2753.9	2667.0
27.5°	1674.6	1721.8	1969.7	1653.2	1606.0
30°	1041.7	1018.1	1135.0	974.1	907.6
32.5°	683.4	653.3	690.9	620.1	566.4
35°	457.0	466.7	437.7	434.5	366.9
37.5°	285.4	328.3	289.7	309.0	236.0
40°	184.5	238.2	204.9	226.4	173.8
42.5°	151.3	183.4	168.4	179.2	154.5
45°	120.2	149.1	149.1	149.1	121.2
47.5°	66.5	99.8	127.7	101.9	70.8
50°	37.5	50.4	98.7	52.6	39.7
52.5°	25.7	29.0	67.6	30.0	26.8
55°	19.3	20.4	36.5	21.5	20.4
57.5°	15.0	16.1	19.3	16.1	15.0
60°	11.8	11.8	13.9	12.9	11.8
62.5°	8.6	8.6	9.7	8.6	8.6
65°	6.4	6.4	6.4	6.4	6.4
67.5°	3.2	4.3	4.3	4.3	4.3
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)