

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: P753046

Luminaire Tested: LD4D75BD010-EU4DR3070959040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753046
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-EU4DR3070959040-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 8184.9 lumens
Efficiency: N/A
Efficacy: 113.1 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 (A_{in}): 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

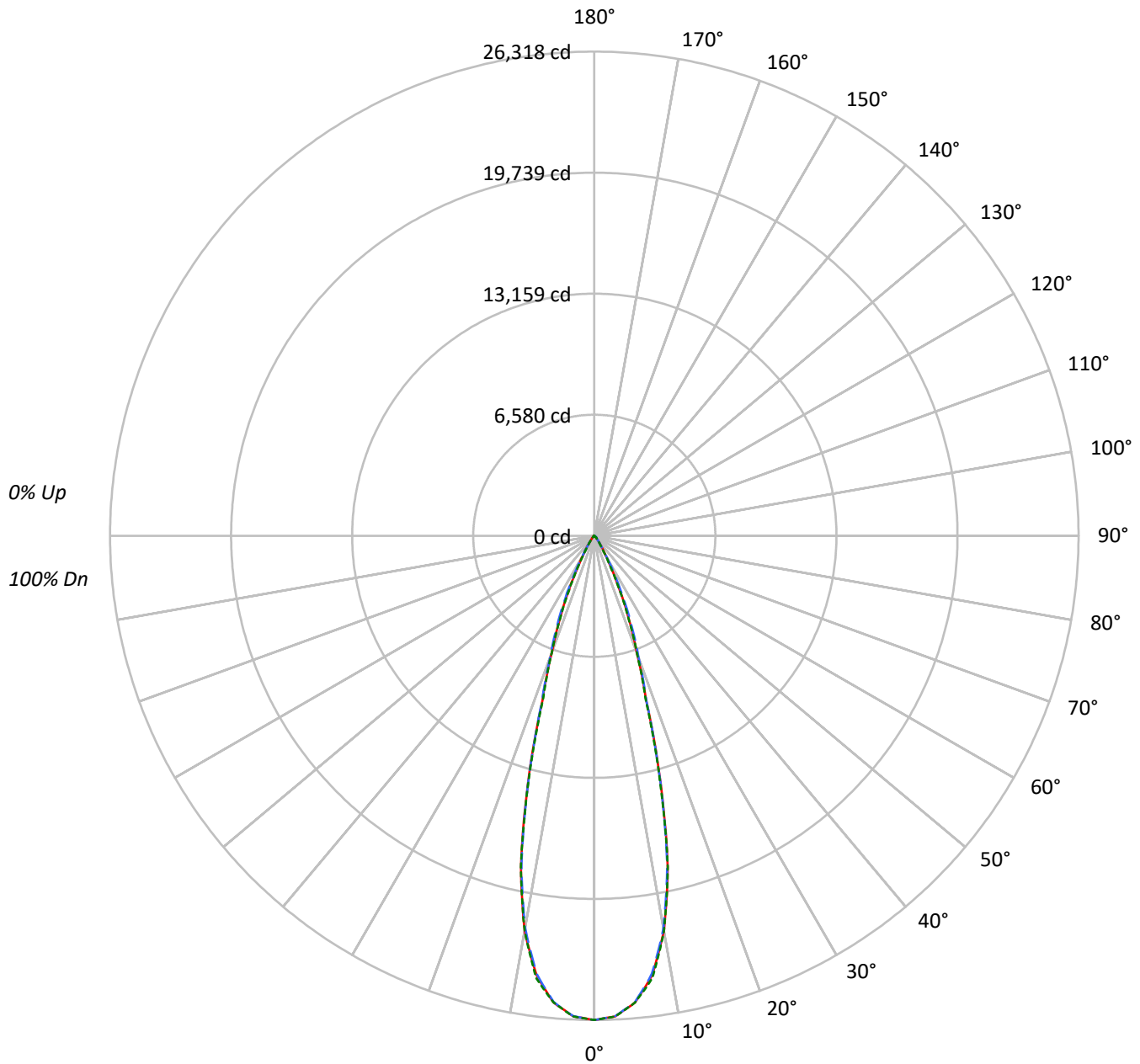


Downlight

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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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89		
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85		
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82		
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79		
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2014492	2014492	2014492
5°	1956662	1954380	1956761
10°	1694768	1682814	1694364
15°	1105749	1099813	1094282
20°	549835	570467	549102
25°	276974	312328	271299
30°	110896	120831	96622
35°	51440	49263	41292
40°	22202	24660	20913
45°	15664	19441	15804
50°	5382	14159	5692
55°	3109	5858	3283
60°	2174	2572	2174
65°	1413	1413	1413
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19441 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2314.3	28.3
10°-20°	3727.2	45.5
20°-30°	1610.6	19.7
30°-40°	367.1	4.5
40°-50°	126.1	1.5
50°-60°	30.8	0.4
60°-70°	8.0	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°	7652.1	93.5
0°-40°	8019.2	98.0
0°-60°	8176.1	99.9
0°-90°	8184.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8184.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26318	26318	26318	26318	26318	
5°	25466	25441	25436	25489	25467	2316
15°	13954	13786	13879	13834	13809	3736
25°	3280	3404	3698	3317	3212	1570
35°	550	562	527	523	442	373
45°	145	180	180	180	146	103
55°	23	25	44	26	25	23
65°	8	8	8	8	8	8
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°	26318.3	26318.3	26318.3	26318.3	26318.3
2.5°	26143.9	26125.8	26136.1	26149.1	26154.2
5°	25465.5	25441.0	25435.8	25488.8	25466.8
7.5°	24097.1	24062.2	24009.3	24129.4	24241.9
10°	21804.9	21766.1	21651.1	21708.0	21799.7
12.5°	18420.8	18295.4	18292.8	18473.7	18449.2
15°	13953.8	13785.8	13878.9	13833.7	13809.1
17.5°	9383.5	9318.9	9443.0	9405.5	9244.0
20°	6750.1	6766.9	7003.4	6884.5	6741.1
22.5°	4925.6	4986.4	5266.8	4960.5	4848.1
25°	3279.5	3403.5	3698.1	3316.9	3212.3
27.5°	2017.0	2073.9	2372.4	1991.2	1934.3
30°	1254.7	1226.2	1367.1	1173.3	1093.2
32.5°	823.1	786.9	832.1	746.9	682.3
35°	550.5	562.1	527.2	523.3	441.9
37.5°	343.7	395.4	348.9	372.1	284.3
40°	222.2	286.9	246.8	272.6	209.3
42.5°	182.2	221.0	202.9	215.8	186.1
45°	144.7	179.6	179.6	179.6	146.0
47.5°	80.1	120.2	153.8	122.8	85.3
50°	45.2	60.7	118.9	63.3	47.8
52.5°	31.0	34.9	81.4	36.2	32.3
55°	23.3	24.6	43.9	25.8	24.6
57.5°	18.1	19.4	23.3	19.4	18.1
60°	14.2	14.2	16.8	15.5	14.2
62.5°	10.3	10.3	11.6	10.3	10.3
65°	7.8	7.8	7.8	7.8	7.8
67.5°	3.9	5.2	5.2	5.2	5.2
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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)