

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: P756161

Luminaire Tested: LD4D95BD010-EU4DR3070959040-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756161
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: LD4D95BD010-EU4DR3070959040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 9093.6 lumens
Efficiency: N/A
Efficacy: 91.7 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): 99.2
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

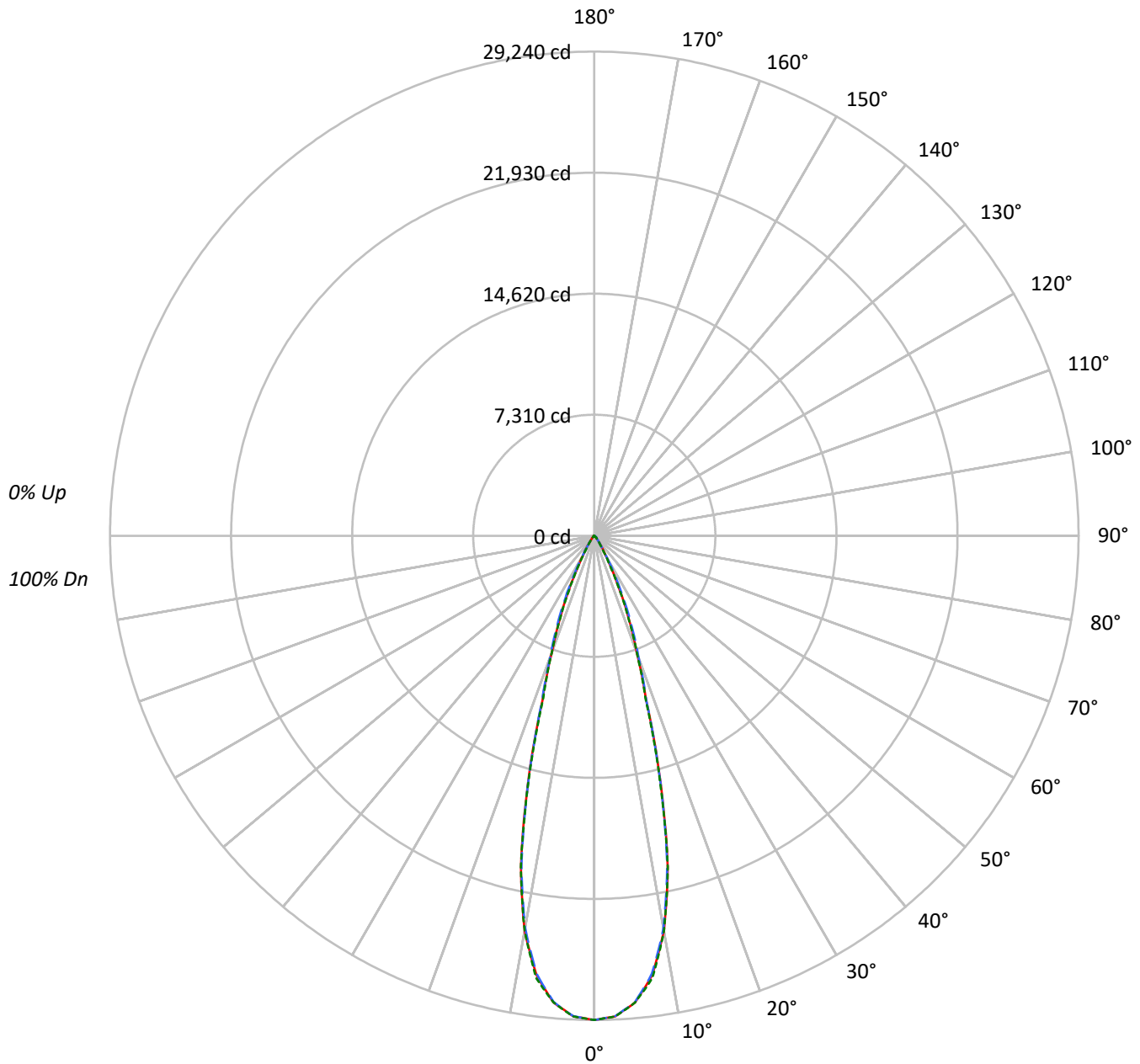


Downlight

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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°	2238160	2238160	2238160
5°	2173907	2171371	2174022
10°	1882939	1869656	1882488
15°	1228521	1221928	1215778
20°	610886	633807	610071
25°	307725	347006	301416
30°	123208	134248	107343
35°	57149	54729	45880
40°	24670	27398	23241
45°	17406	21596	17558
50°	5978	15731	6323
55°	3443	6512	3643
60°	2419	2863	2419
65°	1558	1558	1558
70°	962	649	962
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 21596 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2571.3	28.3
10°-20°	4141.0	45.5
20°-30°	1789.4	19.7
30°-40°	407.9	4.5
40°-50°	140.0	1.5
50°-60°	34.2	0.4
60°-70°	8.9	0.1
70°-80°	0.9	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°	8501.7	93.5
0°-40°	8909.6	98.0
0°-60°	9083.8	99.9
0°-90°	9093.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9093.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29240	29240	29240	29240	29240	
5°	28293	28266	28260	28319	28294	2573
15°	15503	15316	15420	15370	15342	4151
25°	3644	3781	4109	3685	3569	1744
35°	612	624	586	581	491	415
45°	161	200	200	200	162	114
55°	26	27	49	29	27	25
65°	9	9	9	9	9	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°	29240.4	29240.4	29240.4	29240.4	29240.4
2.5°	29046.6	29026.5	29038.0	29052.4	29058.1
5°	28292.9	28265.7	28259.9	28318.8	28294.4
7.5°	26772.6	26733.9	26675.0	26808.5	26933.4
10°	24225.9	24182.8	24055.0	24118.2	24220.1
12.5°	20466.0	20326.8	20323.9	20524.9	20497.6
15°	15503.1	15316.5	15419.9	15369.6	15342.3
17.5°	10425.4	10353.6	10491.4	10449.8	10270.3
20°	7499.6	7518.3	7781.0	7648.9	7489.6
22.5°	5472.5	5540.0	5851.5	5511.3	5386.4
25°	3643.6	3781.4	4108.7	3685.2	3568.9
27.5°	2241.0	2304.1	2635.8	2212.3	2149.1
30°	1394.0	1362.4	1518.9	1303.5	1214.5
32.5°	914.5	874.3	924.5	829.8	758.0
35°	611.6	624.5	585.7	581.4	491.0
37.5°	381.9	439.3	387.6	413.5	315.8
40°	246.9	318.7	274.2	302.9	232.6
42.5°	202.4	245.5	225.4	239.7	206.7
45°	160.8	199.5	199.5	199.5	162.2
47.5°	89.0	133.5	170.8	136.4	94.8
50°	50.2	67.5	132.1	70.3	53.1
52.5°	34.5	38.8	90.4	40.2	35.9
55°	25.8	27.3	48.8	28.7	27.3
57.5°	20.1	21.5	25.8	21.5	20.1
60°	15.8	15.8	18.7	17.2	15.8
62.5°	11.5	11.5	12.9	11.5	11.5
65°	8.6	8.6	8.6	8.6	8.6
67.5°	4.3	5.7	5.7	5.7	5.7
70°	4.3	2.9	2.9	2.9	4.3
72.5°	2.9	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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)