

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: P1179327

Luminaire Tested: LDA2B159024R2050D010 2LBD1GPH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B159024R2050D010 2LBD1GPH
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2400K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

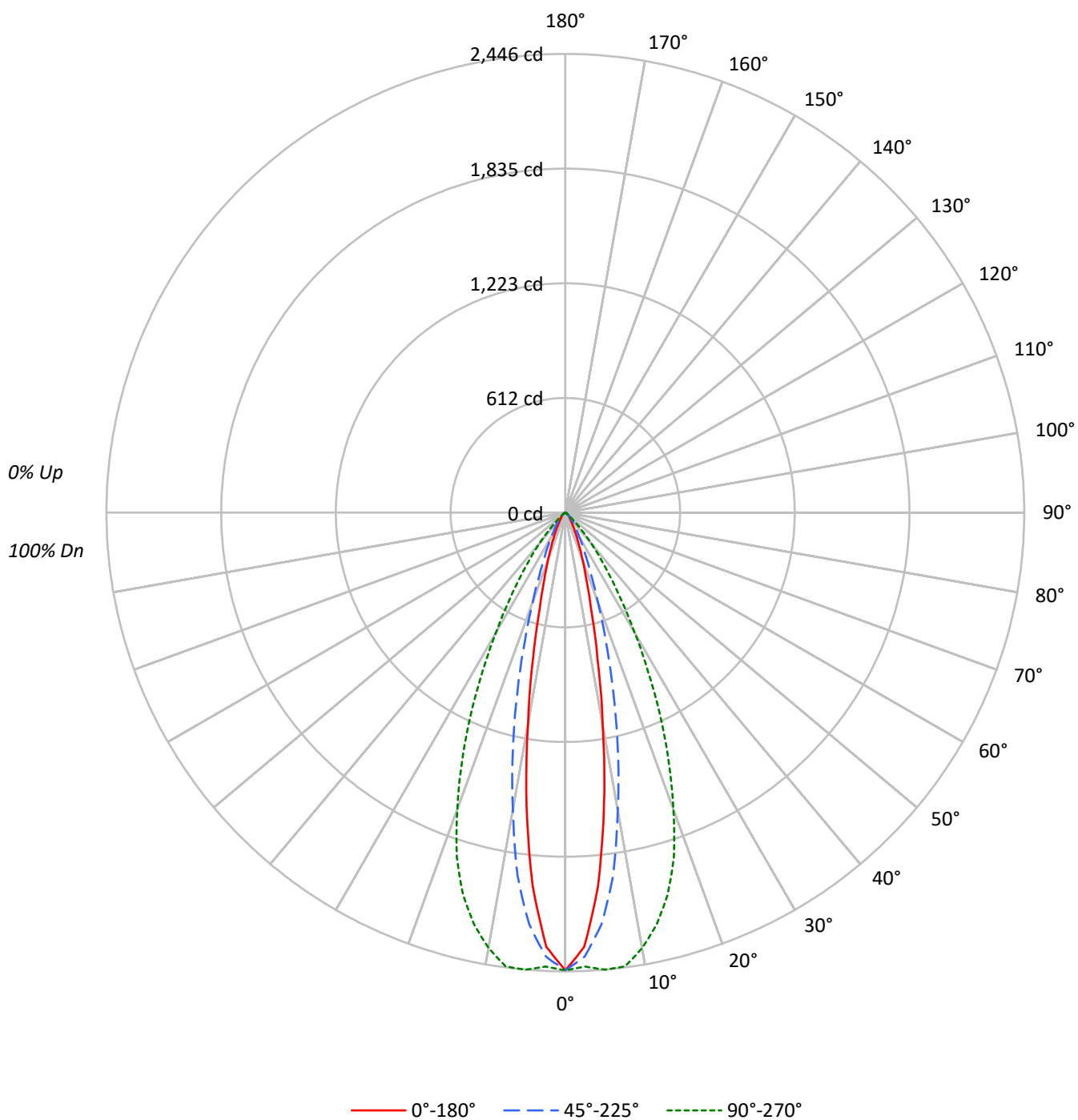
Lumens per Lamp: N/A
Luminaire Lumens: 877.0 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 14.1
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

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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	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1203753	1203753	1203753
5°	989651	1091969	1211373
10°	574465	806917	1181043
15°	267641	502542	1076285
20°	141022	264980	884614
25°	78116	143440	652475
30°	45803	84029	421966
35°	29391	56374	250008
40°	22928	37998	138919
45°	19885	22746	61748
50°	17960	15581	22642
55°	12214	11354	10494
60°	9078	7992	7992
65°	7121	5954	7121
70°	5914	5914	5914
75°	5909	5909	5909
80°	5682	5682	5682
85°	5661	5661	5661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 61748 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	22.2
10°-20°	318.1	36.3
20°-30°	212.2	24.2
30°-40°	95.6	10.9
40°-50°	35.0	4.0
50°-60°	12.2	1.4
60°-70°	5.7	0.7
70°-80°	3.0	0.3
80°-90°	0.8	0.1
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°	724.5	82.6
0°-40°	820.2	93.5
0°-60°	867.4	98.9
0°-90°	877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2440	2440	2440	2440	2440	
5°	1998	2060	2205	2366	2446	163
15°	524	616	984	1662	2107	157
25°	144	167	264	718	1199	69
35°	49	55	94	202	415	32
45°	28	28	33	51	88	22
55°	14	13	13	11	12	13
65°	6	6	5	5	6	6
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2439.9	2439.9	2439.9	2439.9	2439.9
2.5°	2316.8	2341.2	2369.7	2399.2	2422.6
5°	1998.3	2060.4	2204.9	2365.6	2446.0
7.5°	1580.1	1671.7	1952.5	2270.0	2439.9
10°	1146.7	1263.7	1610.7	2104.1	2357.5
12.5°	788.5	898.4	1292.2	1894.5	2248.6
15°	524.0	615.6	983.9	1662.5	2107.2
17.5°	369.3	431.4	715.3	1409.2	1925.0
20°	268.6	310.3	504.7	1160.9	1684.9
22.5°	195.4	226.9	359.2	927.9	1441.8
25°	143.5	166.9	263.5	718.3	1198.6
27.5°	106.8	125.1	197.4	545.4	955.4
30°	80.4	95.6	147.5	401.9	740.7
32.5°	62.1	72.2	112.9	286.9	560.6
35°	48.8	54.9	93.6	202.5	415.1
37.5°	40.7	44.8	77.3	141.4	304.2
40°	35.6	38.7	59.0	100.7	215.7
42.5°	31.5	33.6	42.7	72.2	140.4
45°	28.5	28.5	32.6	50.9	88.5
47.5°	26.5	23.4	25.4	35.6	51.9
50°	23.4	19.3	20.3	24.4	29.5
52.5°	18.3	16.3	16.3	16.3	17.3
55°	14.2	13.2	13.2	11.2	12.2
57.5°	11.2	11.2	10.2	9.2	10.2
60°	9.2	9.2	8.1	7.1	8.1
62.5°	7.1	7.1	6.1	6.1	7.1
65°	6.1	6.1	5.1	5.1	6.1
67.5°	5.1	5.1	5.1	4.1	5.1
70°	4.1	4.1	4.1	4.1	4.1
72.5°	3.1	3.1	4.1	3.1	3.1
75°	3.1	3.1	3.1	3.1	3.1
77.5°	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)