

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: P1179370

Luminaire Tested: LDA2B159027R2050D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179370
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: LDA2B159027R2050D010 2LBD1MMS
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 90 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

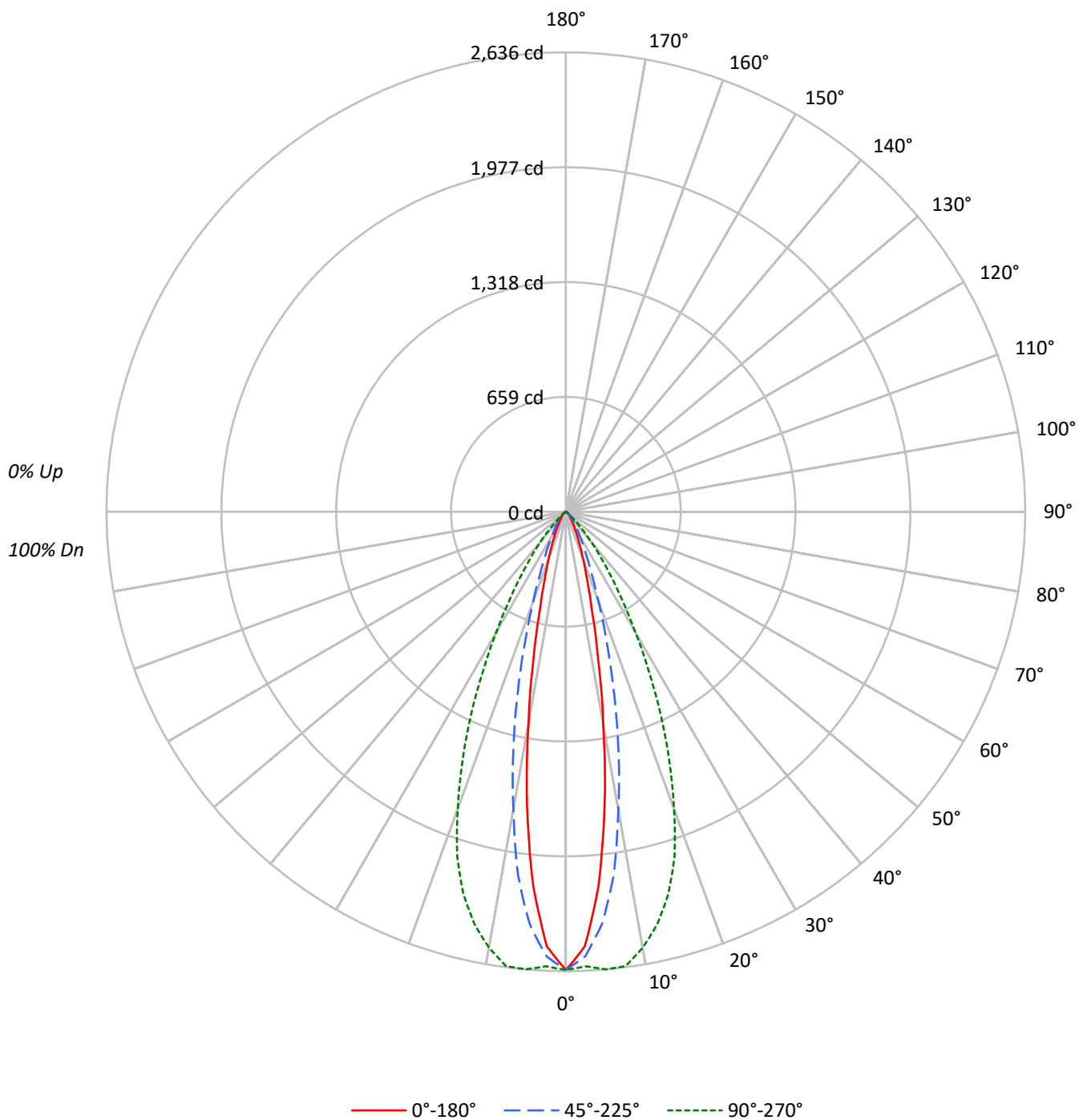
Lumens per Lamp: N/A
Luminaire Lumens: 945.1 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89		93	90	88		90	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79		85	81	78		83	80	78	76
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80	77	74	73
7	89	81	76	72	88	80	75	72	79	75	71		78	74	71		77	73	71	70
8	85	77	72	69	84	77	72	69	76	71	68		75	71	68		74	70	68	67
9	82	74	69	66	81	74	69	66	73	68	65		72	68	65		71	68	65	64
10	79	71	66	63	79	71	66	63	70	66	63		69	65	62		69	65	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1297048	1297048	1297048
5°	1066364	1176557	1305222
10°	618952	869438	1272571
15°	288378	541463	1159694
20°	151942	285508	953182
25°	84159	154545	703047
30°	49335	90580	454666
35°	31680	60770	269401
40°	24731	40961	149674
45°	21420	24490	66562
50°	19342	16809	24408
55°	13160	12300	11354
60°	9769	8683	8683
65°	7705	6421	7705
70°	6347	6347	6347
75°	6290	6290	6290
80°	6251	6251	6251
85°	6227	6227	6227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 66562 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	22.1
10°-20°	342.7	36.3
20°-30°	228.6	24.2
30°-40°	103.1	10.9
40°-50°	37.7	4.0
50°-60°	13.2	1.4
60°-70°	6.2	0.7
70°-80°	3.3	0.3
80°-90°	0.9	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°	780.7	82.6
0°-40°	883.8	93.5
0°-60°	934.7	98.9
0°-90°	945.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	945.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2629	2629	2629	2629	2629	
5°	2153	2220	2376	2549	2636	176
15°	565	663	1060	1791	2270	169
25°	155	180	284	774	1292	75
35°	53	59	101	218	447	35
45°	31	31	35	55	95	24
55°	15	14	14	12	13	14
65°	7	7	6	6	7	7
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°	2629.0	2629.0	2629.0	2629.0	2629.0
2.5°	2496.3	2522.6	2553.3	2585.1	2610.3
5°	2153.2	2220.0	2375.7	2548.9	2635.5
7.5°	1702.6	1801.2	2103.8	2445.9	2629.0
10°	1235.5	1361.6	1735.5	2267.2	2540.2
12.5°	849.6	968.0	1392.3	2041.3	2422.9
15°	564.6	663.3	1060.1	1791.4	2270.5
17.5°	398.0	464.8	770.7	1518.4	2074.2
20°	289.4	334.4	543.8	1250.9	1815.5
22.5°	210.5	244.5	387.0	999.8	1553.5
25°	154.6	179.8	283.9	774.0	1291.5
27.5°	115.1	134.8	212.7	587.6	1029.4
30°	86.6	103.1	159.0	433.0	798.1
32.5°	66.9	77.8	121.7	309.2	604.1
35°	52.6	59.2	100.9	218.2	447.3
37.5°	43.9	48.2	83.3	152.4	327.8
40°	38.4	41.7	63.6	108.5	232.4
42.5°	34.0	36.2	46.0	77.8	151.3
45°	30.7	30.7	35.1	54.8	95.4
47.5°	28.5	25.2	27.4	38.4	55.9
50°	25.2	20.8	21.9	26.3	31.8
52.5°	19.7	17.5	17.5	17.5	18.6
55°	15.3	14.3	14.3	12.1	13.2
57.5°	12.1	12.1	11.0	9.9	11.0
60°	9.9	9.9	8.8	7.7	8.8
62.5°	7.7	7.7	6.6	6.6	7.7
65°	6.6	6.6	5.5	5.5	6.6
67.5°	5.5	5.5	5.5	4.4	5.5
70°	4.4	4.4	4.4	4.4	4.4
72.5°	3.3	3.3	4.4	3.3	3.3
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.2	2.2	2.2	2.2	2.2
80°	2.2	2.2	2.2	2.2	2.2
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1
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)