

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: P1180069

Luminaire Tested: LDA2B209727R2050D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1180069
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: LDA2B209727R2050D010 2LBD1MMS
Description: 2000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

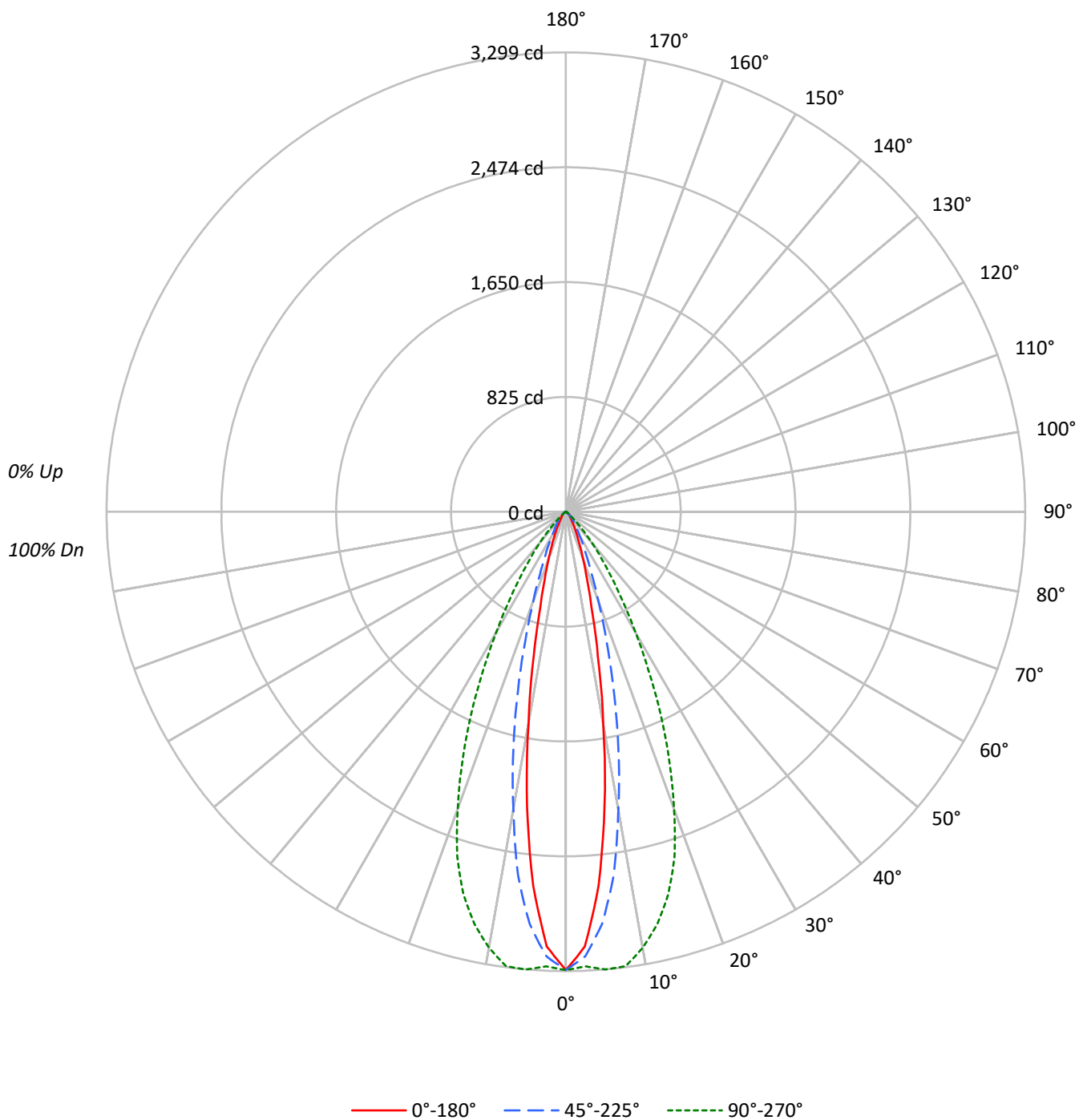
Lumens per Lamp: N/A
Luminaire Lumens: 1182.9 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	96	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	91	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	86	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	82	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	78	78	76
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	74	74	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	71	71	70
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	68	68	67
9	82	74	69	66	81	74	69	66	73	68	65	72	68	65	71	68	65	65	65	64
10	79	71	66	63	79	71	66	63	70	66	63	69	65	62	69	65	62	62	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1623604	1623604	1623604
5°	1334837	1472813	1633867
10°	774804	1088313	1592943
15°	361009	677837	1451647
20°	190216	357384	1193171
25°	105335	193467	880020
30°	61754	113367	569172
35°	39690	76068	337219
40°	30914	51265	187351
45°	26792	30630	83308
50°	24254	21030	30548
55°	16515	15311	14192
60°	12235	10854	10854
65°	9573	8055	9573
70°	7934	7934	7934
75°	7815	7815	7815
80°	7671	7671	7671
85°	7925	7925	7925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 83308 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.0	22.2
10°-20°	429.0	36.3
20°-30°	286.2	24.2
30°-40°	129.0	10.9
40°-50°	47.2	4.0
50°-60°	16.5	1.4
60°-70°	7.7	0.7
70°-80°	4.0	0.3
80°-90°	1.1	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°	977.3	82.6
0°-40°	1106.3	93.5
0°-60°	1170.0	98.9
0°-90°	1182.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1182.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3291	3291	3291	3291	3291	
5°	2695	2779	2974	3191	3299	220
15°	707	830	1327	2242	2842	212
25°	194	225	355	969	1617	93
35°	66	74	126	273	560	44
45°	38	38	44	69	119	30
55°	19	18	18	15	16	18
65°	8	8	7	7	8	8
75°	4	4	4	4	4	4
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°	3290.9	3290.9	3290.9	3290.9	3290.9
2.5°	3124.8	3157.8	3196.2	3236.0	3267.6
5°	2695.3	2779.0	2973.9	3190.7	3299.1
7.5°	2131.3	2254.8	2633.5	3061.7	3290.9
10°	1546.6	1704.5	2172.4	2838.0	3179.7
12.5°	1063.6	1211.8	1742.9	2555.3	3032.9
15°	706.8	830.3	1327.1	2242.4	2842.1
17.5°	498.2	581.9	964.8	1900.7	2596.5
20°	362.3	418.6	680.7	1565.8	2272.6
22.5°	263.5	306.0	484.4	1251.6	1944.6
25°	193.5	225.1	355.4	968.9	1616.6
27.5°	144.1	168.8	266.2	735.6	1288.6
30°	108.4	129.0	199.0	542.1	999.1
32.5°	83.7	97.4	152.3	387.0	756.2
35°	65.9	74.1	126.3	273.1	559.9
37.5°	54.9	60.4	104.3	190.8	410.3
40°	48.0	52.1	79.6	135.9	290.9
42.5°	42.5	45.3	57.6	97.4	189.4
45°	38.4	38.4	43.9	68.6	119.4
47.5°	35.7	31.6	34.3	48.0	70.0
50°	31.6	26.1	27.4	32.9	39.8
52.5°	24.7	22.0	22.0	22.0	23.3
55°	19.2	17.8	17.8	15.1	16.5
57.5°	15.1	15.1	13.7	12.4	13.7
60°	12.4	12.4	11.0	9.6	11.0
62.5°	9.6	9.6	8.2	8.2	9.6
65°	8.2	8.2	6.9	6.9	8.2
67.5°	6.9	6.9	6.9	5.5	6.9
70°	5.5	5.5	5.5	5.5	5.5
72.5°	4.1	4.1	5.5	4.1	4.1
75°	4.1	4.1	4.1	4.1	4.1
77.5°	2.7	2.7	2.7	2.7	2.7
80°	2.7	2.7	2.7	2.7	2.7
82.5°	1.4	1.4	1.4	1.4	1.4
85°	1.4	1.4	1.4	1.4	1.4
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)