

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: P1178622

Luminaire Tested: LDA2B108027R2040D010 2LBD1MMS

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B108027R2040D010 2LBD1MMS
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

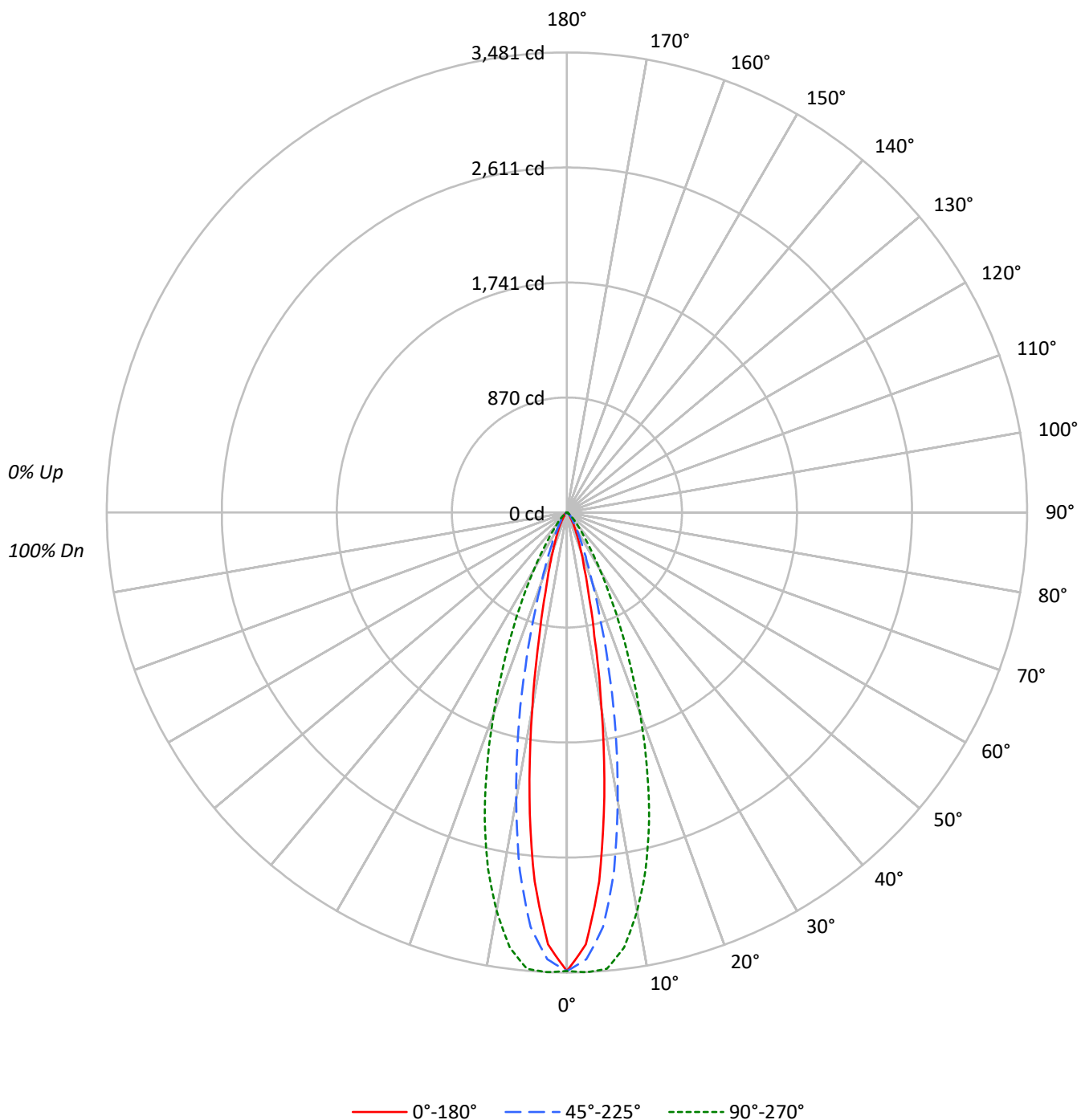
Lumens per Lamp: N/A
Luminaire Lumens: 977.9 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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					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	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	97	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	92	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	88	88	87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	84	84	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	81	81	79
6	94	87	83	79	93	87	82	79	85	81	78	84	80	78	83	80	77	77	77	76
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	74	74	73
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	72	72	70
9	85	78	73	70	84	77	73	70	76	72	70	76	72	69	75	72	69	69	69	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	67	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1711867	1711867	1711867
5°	1387581	1558491	1716326
10°	754415	1106498	1532626
15°	319075	620938	1226757
20°	162915	291966	848230
25°	90201	149374	517037
30°	50474	82946	281937
35°	29211	50230	143645
40°	21768	38063	79539
45°	19117	25746	47096
50°	20263	17039	25098
55°	14537	11784	13590
60°	9374	8288	8288
65°	7355	7355	7355
70°	6058	6058	6058
75°	6100	6100	6100
80°	5966	5966	5966
85°	6227	6227	6227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 47096 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	27.6
10°-20°	382.3	39.1
20°-30°	196.9	20.1
30°-40°	72.5	7.4
40°-50°	31.8	3.3
50°-60°	14.0	1.4
60°-70°	6.1	0.6
70°-80°	3.1	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°	849.6	86.9
0°-40°	922.1	94.3
0°-60°	967.9	99.0
0°-90°	977.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3470	3470	3470	3470	3470	
5°	2802	2897	3147	3370	3466	225
15°	625	726	1216	2028	2402	191
25°	166	186	274	630	950	80
35°	48	56	83	146	238	33
45°	27	32	37	44	68	22
55°	17	15	14	15	16	15
65°	6	6	6	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°	3469.8	3469.8	3469.8	3469.8	3469.8
2.5°	3271.4	3310.4	3383.3	3452.9	3481.4
5°	2801.8	2896.8	3146.9	3369.5	3465.6
7.5°	2169.7	2325.9	2731.1	3147.9	3318.9
10°	1505.9	1664.2	2208.7	2808.1	3059.3
12.5°	960.3	1114.4	1702.2	2431.4	2757.5
15°	624.7	726.0	1215.7	2028.3	2401.8
17.5°	433.7	505.5	827.3	1600.9	2008.2
20°	310.3	360.9	556.1	1221.0	1615.6
22.5°	224.8	259.6	386.2	891.7	1255.8
25°	165.7	185.7	274.4	630.0	949.8
27.5°	122.4	135.1	198.4	434.8	694.4
30°	88.6	99.2	145.6	298.6	494.9
32.5°	64.4	73.9	108.7	206.8	345.1
35°	48.5	55.9	83.4	145.6	238.5
37.5°	40.1	44.3	68.6	105.5	168.8
40°	33.8	38.0	59.1	78.1	123.5
42.5°	29.5	34.8	48.5	58.0	92.9
45°	27.4	31.7	36.9	44.3	67.5
47.5°	27.4	26.4	28.5	33.8	47.5
50°	26.4	22.2	22.2	26.4	32.7
52.5°	22.2	17.9	17.9	19.0	22.2
55°	16.9	14.8	13.7	14.8	15.8
57.5°	12.7	12.7	11.6	10.6	11.6
60°	9.5	9.5	8.4	8.4	8.4
62.5°	7.4	7.4	7.4	6.3	7.4
65°	6.3	6.3	6.3	5.3	6.3
67.5°	5.3	5.3	4.2	5.3	5.3
70°	4.2	4.2	4.2	4.2	4.2
72.5°	3.2	3.2	3.2	3.2	3.2
75°	3.2	3.2	3.2	3.2	3.2
77.5°	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1
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)