

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: P1179121

Luminaire Tested: LDA2B158027R2040D010 2LBD1B

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179121
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: LDA2B158027R2040D010 2LBD1B
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 2700K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

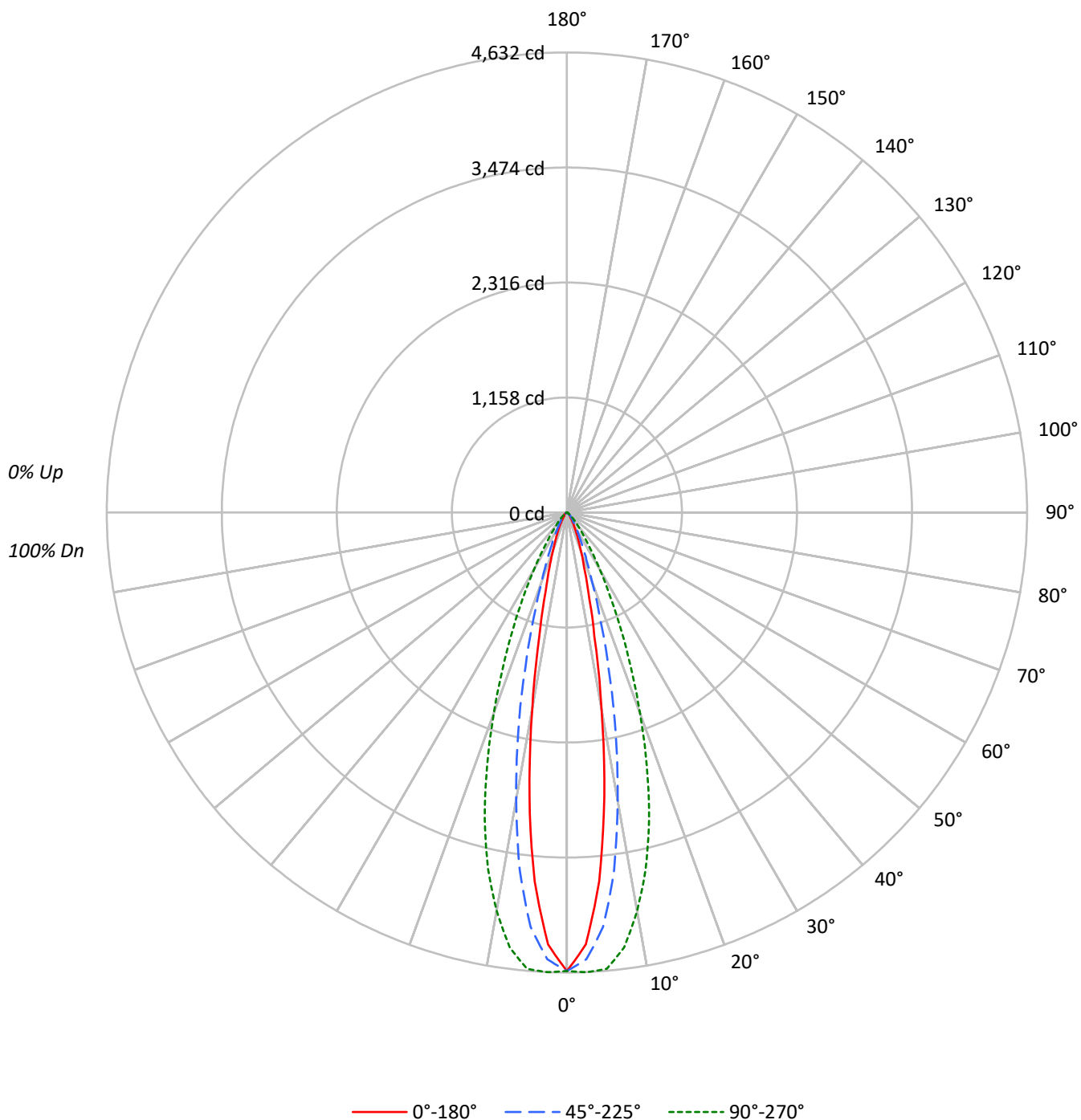
Lumens per Lamp: N/A
Luminaire Lumens: 1301.2 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2277802	2277802	2277802
5°	1846278	2073696	2283729
10°	1003799	1472309	2039310
15°	424600	826215	1632356
20°	216730	388518	1128698
25°	120032	198747	687913
30°	67166	110405	375195
35°	38908	66793	191105
40°	28917	50621	105815
45°	25467	34258	62725
50°	26940	22642	33388
55°	19353	15741	18149
60°	12433	11051	11051
65°	9806	9806	9806
70°	8078	8078	8078
75°	8006	8006	8006
80°	7955	7955	7955
85°	7925	7925	7925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 62725 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.7	27.6
10°-20°	508.7	39.1
20°-30°	262.1	20.1
30°-40°	96.4	7.4
40°-50°	42.4	3.3
50°-60°	18.6	1.4
60°-70°	8.1	0.6
70°-80°	4.1	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°	1130.5	86.9
0°-40°	1226.9	94.3
0°-60°	1287.9	99.0
0°-90°	1301.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1301.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4617	4617	4617	4617	4617	
5°	3728	3854	4187	4484	4611	300
15°	831	966	1618	2699	3196	254
25°	220	247	365	838	1264	106
35°	65	74	111	194	317	44
45°	36	42	49	59	90	29
55°	22	20	18	20	21	21
65°	8	8	8	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°	4616.9	4616.9	4616.9	4616.9	4616.9
2.5°	4352.9	4404.9	4501.7	4594.4	4632.3
5°	3728.0	3854.4	4187.2	4483.5	4611.3
7.5°	2887.0	3094.8	3634.0	4188.6	4416.1
10°	2003.7	2214.4	2938.9	3736.5	4070.7
12.5°	1277.8	1482.8	2264.9	3235.2	3669.1
15°	831.3	966.1	1617.6	2698.8	3195.9
17.5°	577.1	672.6	1100.9	2130.1	2672.1
20°	412.8	480.2	740.0	1624.6	2149.8
22.5°	299.1	345.4	513.9	1186.5	1671.0
25°	220.5	247.1	365.1	838.3	1263.7
27.5°	162.9	179.7	264.0	578.5	923.9
30°	117.9	132.0	193.8	397.4	658.6
32.5°	85.7	98.3	144.6	275.2	459.2
35°	64.6	74.4	110.9	193.8	317.3
37.5°	53.4	59.0	91.3	140.4	224.7
40°	44.9	50.5	78.6	103.9	164.3
42.5°	39.3	46.3	64.6	77.2	123.6
45°	36.5	42.1	49.1	59.0	89.9
47.5°	36.5	35.1	37.9	44.9	63.2
50°	35.1	29.5	29.5	35.1	43.5
52.5°	29.5	23.9	23.9	25.3	29.5
55°	22.5	19.7	18.3	19.7	21.1
57.5°	16.8	16.8	15.4	14.0	15.4
60°	12.6	12.6	11.2	11.2	11.2
62.5°	9.8	9.8	9.8	8.4	9.8
65°	8.4	8.4	8.4	7.0	8.4
67.5°	7.0	7.0	5.6	7.0	7.0
70°	5.6	5.6	5.6	5.6	5.6
72.5°	4.2	4.2	4.2	4.2	4.2
75°	4.2	4.2	4.2	4.2	4.2
77.5°	2.8	2.8	2.8	2.8	2.8
80°	2.8	2.8	2.8	2.8	2.8
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)