

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: P1179249

Luminaire Tested: LDA2B158040R2050D010 2LBD1GPH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179249
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: LDA2B158040R2050D010 2LBD1GPH
Description: 1500 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

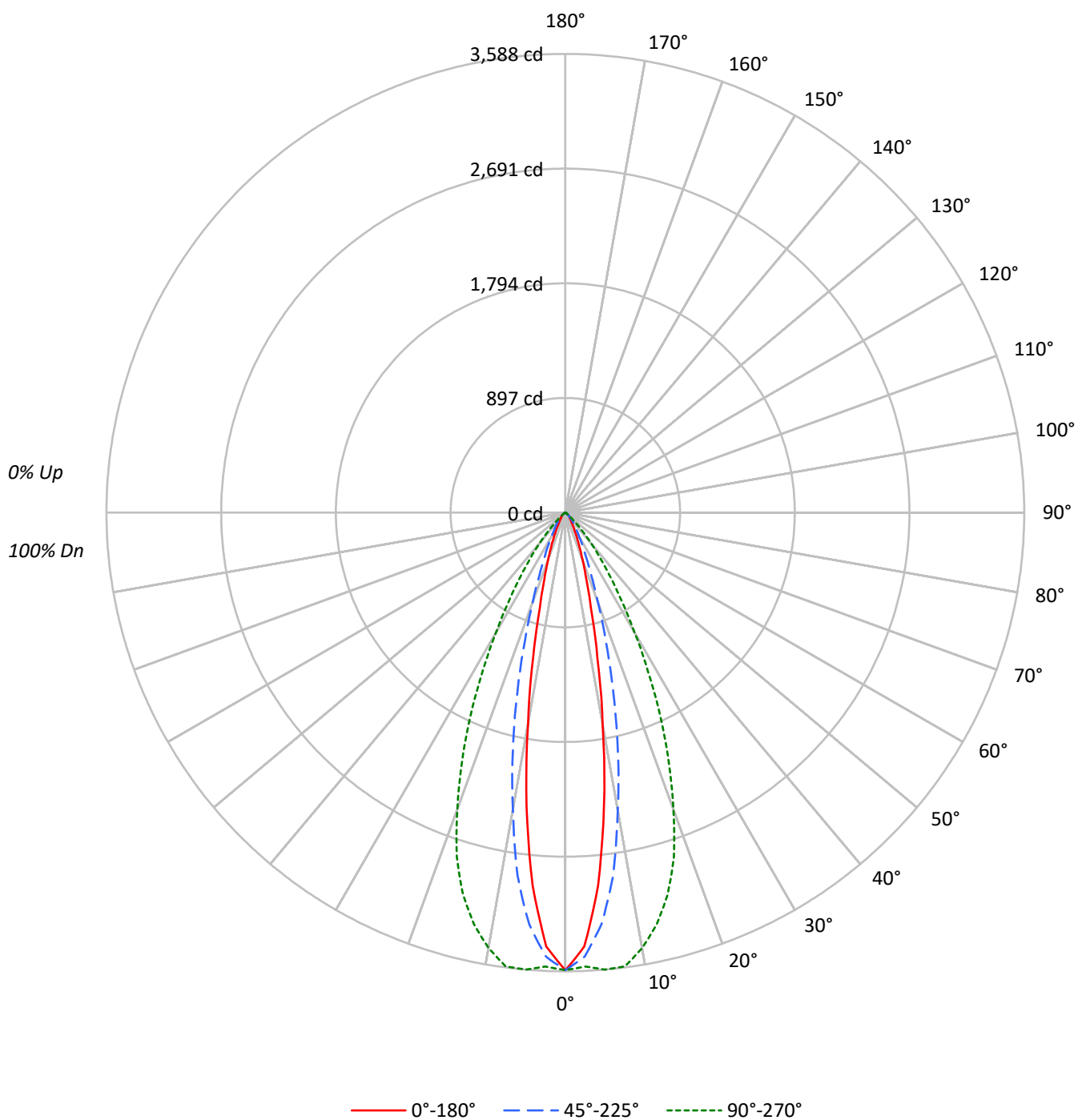
Lumens per Lamp: N/A
Luminaire Lumens: 1286.5 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1179249

CATALOG NUMBER: LDA2B158040R2050D010 2LBD1GPH

Luminous Intensity Polar Plot



TEST NUMBER: P1179249

CATALOG NUMBER: LDA2B158040R2050D010 2LBD1GPH

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°	1765594	1765594	1765594
5°	1451617	1601627	1776795
10°	842586	1183548	1732313
15°	392575	737086	1578624
20°	206860	388623	1297546
25°	114534	210397	956993
30°	67166	123280	618963
35°	43124	82694	366730
40°	33619	55774	203774
45°	29165	33351	90564
50°	26326	22873	33234
55°	17977	16687	15397
60°	13222	11742	11742
65°	10507	8755	10507
70°	8655	8655	8655
75°	8578	8578	8578
80°	8523	8523	8523
85°	8491	8491	8491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 90564 cd/sqm

TEST NUMBER: P1179249

CATALOG NUMBER: LDA2B158040R2050D010 2LBD1GPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.9	22.1
10°-20°	466.6	36.3
20°-30°	311.2	24.2
30°-40°	140.3	10.9
40°-50°	51.4	4.0
50°-60°	18.0	1.4
60°-70°	8.4	0.7
70°-80°	4.5	0.3
80°-90°	1.2	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°	1062.7	82.6
0°-40°	1203.0	93.5
0°-60°	1272.4	98.9
0°-90°	1286.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1286.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3579	3579	3579	3579	3579	
5°	2931	3022	3234	3470	3588	239
15°	769	903	1443	2439	3091	230
25°	210	245	386	1054	1758	102
35°	72	81	137	297	609	47
45°	42	42	48	75	130	33
55°	21	19	19	16	18	20
65°	9	9	8	8	9	9
75°	4	4	4	4	4	4
85°	2	2	2	2	2	1
90°	0	0	0	0	0	

TEST NUMBER: P1179249

CATALOG NUMBER: LDA2B158040R2050D010 2LBD1GPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3578.7	3578.7	3578.7	3578.7	3578.7
2.5°	3398.2	3434.0	3475.8	3519.1	3553.4
5°	2931.1	3022.1	3234.0	3469.8	3587.7
7.5°	2317.7	2452.0	2863.9	3329.5	3578.7
10°	1681.9	1853.5	2362.5	3086.3	3457.9
12.5°	1156.6	1317.8	1895.3	2778.8	3298.2
15°	768.6	902.9	1443.1	2438.6	3090.7
17.5°	541.7	632.8	1049.1	2067.0	2823.6
20°	394.0	455.2	740.2	1702.8	2471.4
22.5°	286.5	332.8	526.8	1361.1	2114.7
25°	210.4	244.8	386.5	1053.6	1758.0
27.5°	156.7	183.6	289.5	799.9	1401.4
30°	117.9	140.3	216.4	589.5	1086.5
32.5°	91.0	106.0	165.7	420.9	822.3
35°	71.6	80.6	137.3	297.0	608.9
37.5°	59.7	65.7	113.4	207.4	446.2
40°	52.2	56.7	86.6	147.7	316.4
42.5°	46.3	49.2	62.7	106.0	205.9
45°	41.8	41.8	47.8	74.6	129.8
47.5°	38.8	34.3	37.3	52.2	76.1
50°	34.3	28.4	29.8	35.8	43.3
52.5°	26.9	23.9	23.9	23.9	25.4
55°	20.9	19.4	19.4	16.4	17.9
57.5°	16.4	16.4	14.9	13.4	14.9
60°	13.4	13.4	11.9	10.4	11.9
62.5°	10.4	10.4	9.0	9.0	10.4
65°	9.0	9.0	7.5	7.5	9.0
67.5°	7.5	7.5	7.5	6.0	7.5
70°	6.0	6.0	6.0	6.0	6.0
72.5°	4.5	4.5	6.0	4.5	4.5
75°	4.5	4.5	4.5	4.5	4.5
77.5°	3.0	3.0	3.0	3.0	3.0
80°	3.0	3.0	3.0	3.0	3.0
82.5°	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	1.5	1.5
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)