

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: P1179091

Luminaire Tested: LDA2B109730R2040D010 2LBD1WMH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1179091
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: LDA2B109730R2040D010 2LBD1WMH
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 97 CRI LEDS AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

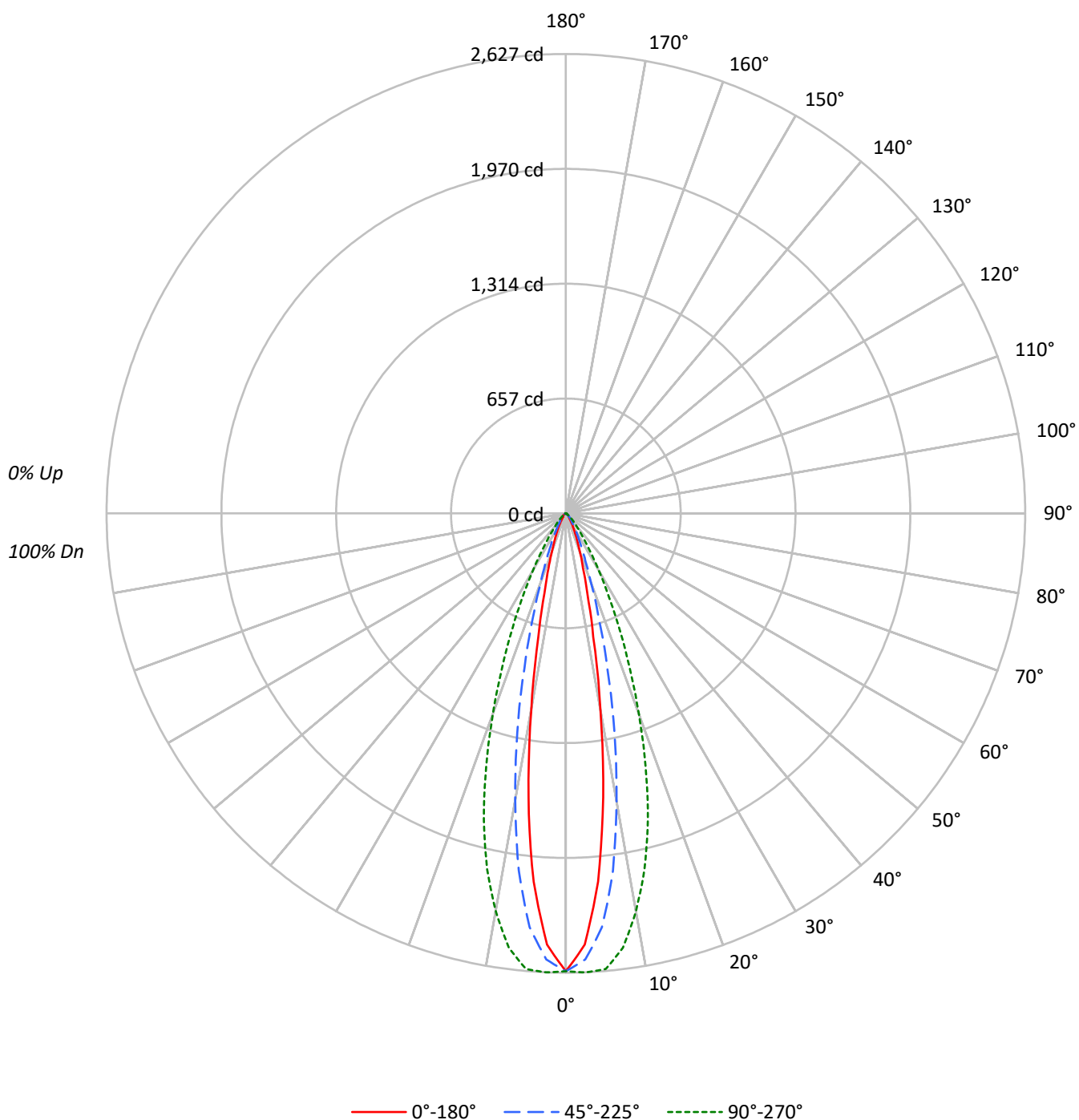
Lumens per Lamp: N/A
Luminaire Lumens: 738.0 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.63 / 0.43
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1291868	1291868	1291868
5°	1047149	1176111	1295218
10°	569305	835021	1156596
15°	240826	468576	925763
20°	122908	220353	640110
25°	68046	112738	390146
30°	38112	62608	212777
35°	22044	37884	108411
40°	16423	28724	60024
45°	14443	19466	35584
50°	15274	12818	18958
55°	10924	8946	10236
60°	7104	6315	6315
65°	5603	5603	5603
70°	4616	4616	4616
75°	4575	4575	4575
80°	4546	4546	4546
85°	4529	4529	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 35584 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	27.6
10°-20°	288.5	39.1
20°-30°	148.6	20.1
30°-40°	54.7	7.4
40°-50°	24.0	3.3
50°-60°	10.5	1.4
60°-70°	4.6	0.6
70°-80°	2.3	0.3
80°-90°	0.7	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°	641.2	86.9
0°-40°	695.9	94.3
0°-60°	730.4	99.0
0°-90°	738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2618	2618	2618	2618	2618	
5°	2114	2186	2375	2543	2615	170
15°	472	548	917	1531	1812	144
25°	125	140	207	475	717	60
35°	37	42	63	110	180	25
45°	21	24	28	33	51	17
55°	13	11	10	11	12	12
65°	5	5	5	4	5	5
75°	2	2	2	2	2	2
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°	2618.5	2618.5	2618.5	2618.5	2618.5
2.5°	2468.7	2498.2	2553.2	2605.7	2627.2
5°	2114.4	2186.0	2374.8	2542.8	2615.3
7.5°	1637.3	1755.2	2061.0	2375.6	2504.6
10°	1136.4	1255.9	1666.8	2119.1	2308.7
12.5°	724.7	841.0	1284.5	1834.8	2080.9
15°	471.5	547.9	917.4	1530.6	1812.5
17.5°	327.3	381.5	624.4	1208.1	1515.5
20°	234.1	272.4	419.7	921.4	1219.2
22.5°	169.6	195.9	291.5	672.9	947.7
25°	125.0	140.2	207.1	475.4	716.7
27.5°	92.4	101.9	149.7	328.1	524.0
30°	66.9	74.9	109.9	225.4	373.5
32.5°	48.6	55.7	82.0	156.1	260.4
35°	36.6	42.2	62.9	109.9	180.0
37.5°	30.3	33.4	51.8	79.6	127.4
40°	25.5	28.7	44.6	58.9	93.2
42.5°	22.3	26.3	36.6	43.8	70.1
45°	20.7	23.9	27.9	33.4	51.0
47.5°	20.7	19.9	21.5	25.5	35.8
50°	19.9	16.7	16.7	19.9	24.7
52.5°	16.7	13.5	13.5	14.3	16.7
55°	12.7	11.1	10.4	11.1	11.9
57.5°	9.6	9.6	8.8	8.0	8.8
60°	7.2	7.2	6.4	6.4	6.4
62.5°	5.6	5.6	5.6	4.8	5.6
65°	4.8	4.8	4.8	4.0	4.8
67.5°	4.0	4.0	3.2	4.0	4.0
70°	3.2	3.2	3.2	3.2	3.2
72.5°	2.4	2.4	2.4	2.4	2.4
75°	2.4	2.4	2.4	2.4	2.4
77.5°	1.6	1.6	1.6	1.6	1.6
80°	1.6	1.6	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.8	0.8	0.8	0.8
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)