

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: P1311328

Luminaire Tested: LDSQA3D09R359040DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R359040DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

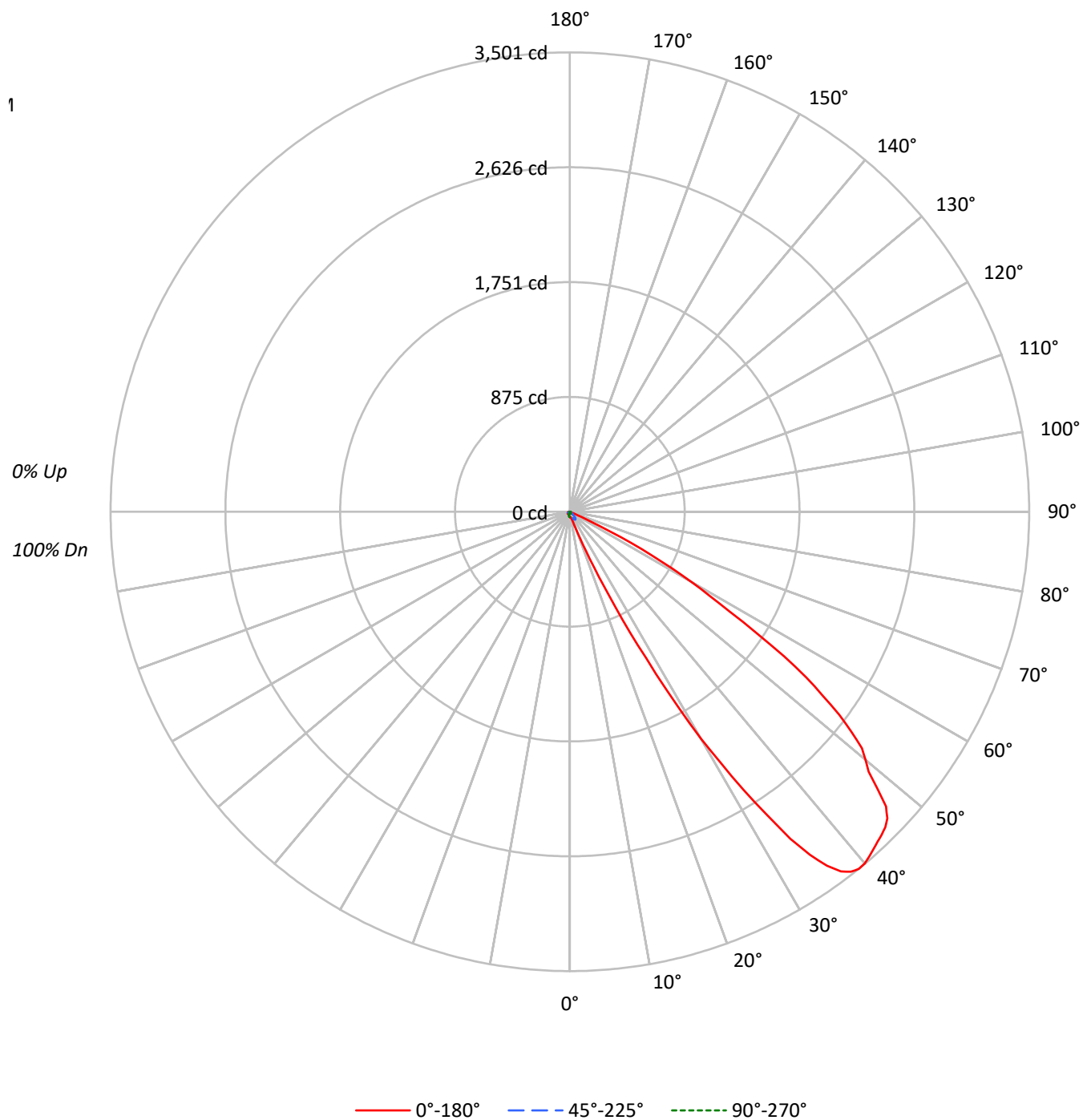
Lumens per Lamp: N/A
Luminaire Lumens: 872.0 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: P1311328

CATALOG NUMBER: LDSQA3D09R359040DE010 3LSQCA45R 1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1311328

CATALOG NUMBER: LDSQA3D09R359040DE010 3LSQCA45R 1MW

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	100		
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35		
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	29		
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	24		
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20		
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6906	6906	6906	6906	6906
5°	7486	7347	6811	6120	5982
10°	7852	7153	6051	5229	5229
15°	11233	7025	4921	4493	4636
20°	28133	7496	3904	3904	4325
25°	130586	9577	2983	3592	4048
30°	396995	12986	2347	3281	4077
35°	670934	15054	1976	3154	3974
40°	786468	14861	1596	3192	4249
45°	828249	10546	1340	3459	4603
50°	788360	6323	1259	3590	5064
55°	660604	2612	1411	4023	5915
60°	369831	551	1619	4616	6510
65°	63817	326	1589	5135	7376
70°	1209	403	1964	5539	8308
75°	1065	532	2595	6255	9449
80°	793	793	3075	7042	10910
85°	0	1581	6126	7707	12449

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 834116 cd/sqm

TEST NUMBER: P1311328

CATALOG NUMBER: LDSQA3D09R359040DE010 3LSQCA45R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.4
10°-20°	10.3	1.2
20°-30°	53.5	6.1
30°-40°	231.1	26.5
40°-50°	329.6	37.8
50°-60°	204.1	23.4
60°-70°	31.1	3.6
70°-80°	5.8	0.7
80°-90°	2.9	0.3
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°	67.4	7.7
0°-40°	298.5	34.2
0°-60°	832.2	95.4
0°-90°	872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	40	40	40	40	40	
5°	43	42	39	35	35	4
15°	63	39	28	25	26	23
25°	687	50	16	19	21	411
35°	3191	72	9	15	19	1916
45°	3401	43	6	14	19	2569
55°	2200	9	5	13	20	1874
65°	157	1	4	13	18	320
75°	2	1	4	9	14	2
85°	0	1	3	4	6	0
90°	0	0	0	0	0	

TEST NUMBER: P1311328

CATALOG NUMBER: LDSQA3D09R359040DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
2.5°	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	40.1	39.4
5°	43.3	43.3	42.5	42.5	42.5	42.5	42.5	42.5	40.9	39.4	37.0
7.5°	44.1	44.1	43.3	43.3	43.3	43.3	42.5	41.7	40.1	37.0	34.6
10°	44.9	44.9	44.9	44.9	44.1	43.3	42.5	40.9	38.6	34.6	32.3
12.5°	50.4	50.4	49.6	48.0	46.4	44.9	43.3	40.1	35.4	31.5	29.1
15°	63.0	62.2	60.6	58.3	55.1	51.2	48.0	39.4	32.3	27.6	26.0
17.5°	88.2	86.6	84.2	76.4	69.3	62.2	55.9	39.4	29.1	24.4	22.8
20°	153.5	154.3	137.8	118.9	103.1	85.8	70.1	40.9	26.0	21.3	20.5
22.5°	320.4	307.8	268.4	222.8	170.0	131.5	99.2	44.9	22.8	18.1	18.1
25°	687.2	639.2	543.9	410.9	289.7	205.5	144.1	50.4	20.5	15.7	16.5
27.5°	1254.7	1211.4	1020.2	768.3	510.1	310.1	195.2	57.5	18.1	13.4	15.0
30°	1996.3	1876.6	1627.1	1259.5	852.5	474.7	262.1	65.3	15.0	11.8	14.2
31°	2227.7	2172.6	1868.7	1457.0	998.9	563.6	290.5	67.7	14.2	11.8	13.4
32°	2502.4	2404.8	2132.4	1673.5	1147.7	643.1	324.3	70.1	13.4	10.2	13.4
33°	2748.0	2653.5	2322.1	1864.0	1298.0	733.6	360.5	70.8	11.8	10.2	12.6
34°	3006.2	2877.1	2548.8	2063.2	1452.3	831.2	393.6	71.6	11.0	9.4	12.6
35°	3191.2	3062.1	2744.1	2220.6	1585.4	917.8	431.4	71.6	10.2	9.4	11.8
36°	3334.4	3221.1	2912.5	2382.8	1717.6	995.8	461.3	71.6	8.7	8.7	11.8
37°	3432.8	3325.0	3025.9	2522.1	1818.4	1065.0	488.0	71.6	7.9	8.7	11.8
38°	3480.9	3391.1	3135.3	2623.6	1916.0	1119.4	509.3	70.1	7.1	7.9	11.0
39°	3501.3	3428.1	3202.2	2709.4	1989.2	1166.6	525.0	68.5	6.3	7.9	11.0
40°	3498.2	3434.4	3240.0	2768.5	2048.2	1198.9	533.7	66.1	5.5	7.1	11.0
41°	3480.1	3425.0	3259.7	2818.8	2083.6	1220.9	536.1	63.8	4.7	7.1	10.2
42°	3459.6	3409.2	3266.0	2845.6	2106.5	1228.0	529.8	60.6	4.7	6.3	10.2
43°	3438.3	3391.9	3266.0	2854.3	2112.0	1223.3	519.5	55.1	3.9	6.3	10.2
44°	3421.0	3376.9	3255.7	2851.9	2100.2	1205.2	500.6	48.8	3.1	6.3	10.2
45°	3400.6	3357.3	3242.3	2836.9	2077.3	1174.5	477.0	43.3	2.4	5.5	10.2
46°	3364.4	3330.5	3218.7	2806.2	2041.1	1131.9	447.1	39.4	1.6	5.5	9.4
47°	3294.3	3265.2	3173.1	2760.6	1993.1	1081.6	416.4	35.4	1.6	5.5	9.4
48°	3153.4	3152.6	3081.8	2675.6	1916.8	1018.6	384.1	31.5	1.6	5.5	9.4
49°	3017.2	3003.0	2914.9	2526.0	1807.3	943.0	350.3	28.3	0.8	5.5	9.4
50°	2942.4	2911.7	2766.9	2349.7	1667.2	838.3	314.1	23.6	0.8	4.7	9.4
51°	2864.5	2820.4	2649.6	2190.7	1500.3	737.6	274.7	18.9	0.8	4.7	8.7
52°	2723.6	2681.9	2490.6	2038.8	1338.2	634.5	236.9	15.7	0.8	4.7	9.4
53°	2571.7	2511.8	2304.0	1871.9	1195.7	543.1	198.4	13.4	0.8	4.7	8.7
54°	2380.4	2353.6	2115.1	1667.2	1028.8	455.0	162.9	11.0	0.8	4.7	8.7
55°	2200.1	2160.8	1912.8	1457.8	877.7	373.1	136.2	8.7	0.8	4.7	8.7
56°	1970.3	1911.2	1679.0	1265.8	724.2	300.7	114.9	7.1	0.8	4.7	8.7
57°	1696.3	1633.4	1450.0	1052.4	568.3	229.1	96.0	5.5	0.8	4.7	8.7
58°	1435.0	1380.7	1183.9	812.4	428.2	159.0	79.5	3.9	0.8	3.9	8.7
59°	1239.8	1180.0	984.7	625.0	297.5	117.3	59.8	3.1	0.8	4.7	8.7
60°	1073.7	996.6	792.7	484.1	212.5	84.2	44.1	1.6	1.6	4.7	8.7
62.5°	618.7	546.3	378.6	196.8	87.4	43.3	21.3	0.8	1.6	4.7	8.7
65°	156.6	139.3	90.5	42.5	24.4	15.0	7.9	0.8	1.6	3.9	7.9



TEST NUMBER: P1311328

CATALOG NUMBER: LDSQA3D09R359040DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	5.5	5.5	5.5	4.7	3.9	3.1	1.6	0.8	1.6	3.9	7.9
70°	2.4	2.4	2.4	1.6	1.6	0.8	0.8	0.8	1.6	3.9	7.1
72.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.4	3.9	6.3
75°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	2.4	3.9	6.3
77.5°	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	2.4	3.1	5.5
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4	3.1	4.7
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	2.4	3.1	3.9
85°	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8	2.4	3.1	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4	3.1	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	40.1	40.1	40.1
2.5°	37.8	37.8	37.8
5°	35.4	35.4	34.6
7.5°	33.1	32.3	32.3
10°	29.9	29.9	29.9
12.5°	27.6	27.6	27.6
15°	25.2	26.0	26.0
17.5°	22.8	24.4	24.4
20°	21.3	22.8	23.6
22.5°	19.7	21.3	22.0
25°	18.9	20.5	21.3
27.5°	17.3	19.7	21.3
30°	16.5	18.9	20.5
31°	16.5	18.9	19.7
32°	15.7	18.9	19.7
33°	15.7	18.9	19.7
34°	15.7	18.1	19.7
35°	15.0	18.1	18.9
36°	15.0	18.1	18.9
37°	15.0	18.1	19.7
38°	15.0	18.1	18.9
39°	14.2	18.1	18.9
40°	14.2	18.1	18.9
41°	14.2	18.1	18.9
42°	14.2	18.1	18.9
43°	14.2	18.1	18.9
44°	14.2	17.3	18.9
45°	14.2	17.3	18.9
46°	14.2	18.1	18.9
47°	14.2	18.1	19.7
48°	14.2	17.3	18.9
49°	13.4	17.3	18.9
50°	13.4	17.3	18.9
51°	13.4	18.1	19.7
52°	13.4	18.1	19.7
53°	13.4	18.1	19.7
54°	13.4	18.1	18.9
55°	13.4	18.1	19.7
56°	13.4	18.1	18.9
57°	13.4	18.1	18.9
58°	13.4	17.3	18.9
59°	13.4	17.3	18.9
60°	13.4	17.3	18.9
62.5°	12.6	17.3	18.9
65°	12.6	16.5	18.1



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	11.8	16.5	17.3
70°	11.0	15.7	16.5
72.5°	10.2	15.0	15.7
75°	9.4	13.4	14.2
77.5°	7.9	11.8	13.4
80°	7.1	10.2	11.0
82.5°	5.5	8.7	9.4
85°	3.9	6.3	6.3
87.5°	1.6	3.1	3.1
90°	0.0	0.0	0.0

(END OF REPORT)