

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: P1320148

Luminaire Tested: LDSQA3D13R459840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R459840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

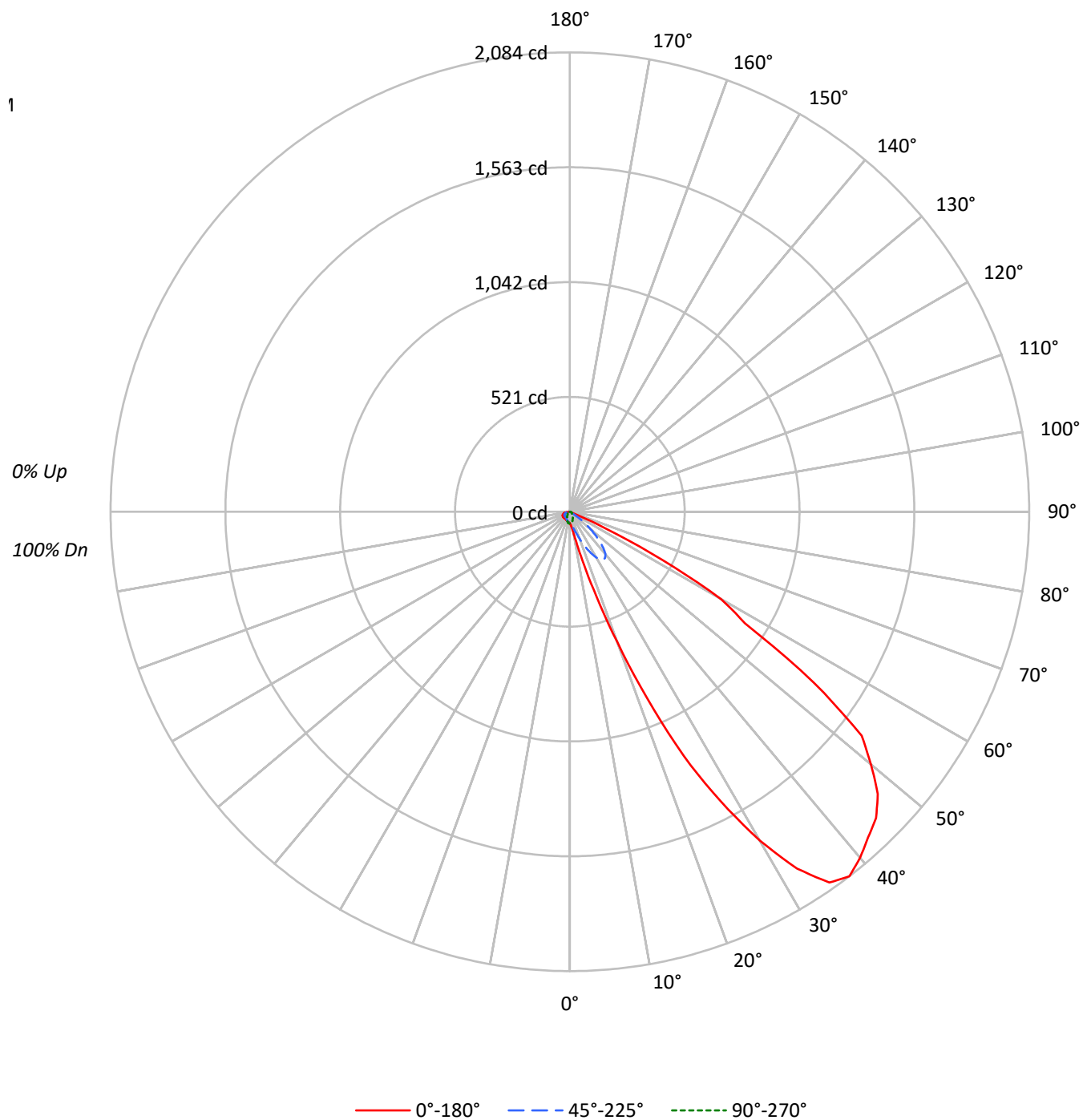
Lumens per Lamp: N/A
Luminaire Lumens: 931.0 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9266	9266	9266	9266	9266
5°	11030	10235	9180	8506	8506
10°	17628	11979	8604	8079	8079
15°	43897	16047	7809	7542	7809
20°	115610	23972	6763	7184	7606
25°	232137	35516	5853	6727	7449
30°	342208	47569	4733	6582	7656
35°	431675	55799	4037	6476	7926
40°	460545	56385	3642	6745	8476
45°	478522	47031	3361	7307	9182
50°	477774	32768	3296	7824	10315
55°	406073	14563	3453	8768	11320
60°	272904	2928	3444	9817	12986
65°	72415	1263	3464	10677	14752
70°	1913	1561	3474	11632	16667
75°	1530	1530	3593	12310	18964
80°	1488	2281	3769	12992	21323
85°	1581	2964	6126	13635	21341

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 490852 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.6
10°-20°	26.3	2.8
20°-30°	108.3	11.6
30°-40°	228.3	24.5
40°-50°	281.6	30.2
50°-60°	211.1	22.7
60°-70°	54.3	5.8
70°-80°	11.3	1.2
80°-90°	4.6	0.5
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°	139.9	15.0
0°-40°	368.2	39.5
0°-60°	860.9	92.5
0°-90°	931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	931.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	54	54	54	54	54	
5°	64	59	53	49	49	7
15°	246	90	44	42	44	90
25°	1222	187	31	35	39	569
35°	2053	265	19	31	38	1251
45°	1965	193	14	30	38	1503
55°	1352	48	12	29	38	1168
65°	178	3	8	26	36	256
75°	2	2	5	18	28	3
85°	1	2	3	7	11	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8	53.8
2.5°	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.2	55.4	53.8	52.3
5°	63.8	63.1	63.1	63.1	62.3	61.5	61.5	59.2	56.2	53.1	50.8
7.5°	75.4	75.4	74.6	73.1	72.3	70.8	69.2	63.1	56.2	51.5	48.5
10°	100.8	99.2	96.9	95.4	91.5	86.2	82.3	68.5	55.4	49.2	46.9
12.5°	150.8	153.9	146.2	138.5	127.7	117.7	105.4	77.7	55.4	46.9	44.6
15°	246.2	251.5	236.9	221.5	195.4	170.8	147.7	90.0	53.8	43.8	41.5
17.5°	402.3	409.2	384.6	348.5	307.7	258.5	216.2	106.9	52.3	40.8	39.2
20°	630.8	630.0	582.3	536.9	458.5	386.2	306.9	130.8	50.0	36.9	36.9
22.5°	911.6	914.7	856.2	774.6	663.1	546.9	420.8	158.5	46.9	33.8	34.6
25°	1221.6	1195.4	1126.2	1027.0	884.7	723.9	557.7	186.9	43.8	30.8	32.3
27.5°	1480.1	1454.7	1375.4	1257.7	1104.7	913.9	697.0	215.4	40.0	27.7	30.0
30°	1720.8	1688.5	1593.1	1460.1	1277.7	1071.6	827.7	239.2	35.4	23.8	27.7
32.5°	1919.3	1890.1	1781.6	1627.0	1428.5	1207.0	938.5	257.7	30.8	21.5	26.2
35°	2053.2	2023.2	1923.2	1753.1	1537.0	1305.4	1028.5	265.4	26.9	19.2	25.4
37.5°	2083.9	2067.8	1996.2	1837.0	1611.6	1368.5	1086.2	263.1	22.3	17.7	23.8
40°	2048.5	2052.4	2018.5	1886.2	1651.6	1395.4	1110.0	250.8	18.5	16.2	23.1
42.5°	2003.2	2013.2	2010.9	1906.2	1668.5	1397.0	1100.0	226.2	14.6	14.6	22.3
45°	1964.7	1974.7	1988.5	1897.8	1657.0	1377.0	1068.5	193.1	10.8	13.8	22.3
47.5°	1894.7	1905.5	1925.5	1830.1	1598.5	1325.4	1011.6	156.9	7.7	13.1	21.5
50°	1783.2	1788.5	1783.2	1676.2	1486.2	1242.4	919.3	122.3	5.4	12.3	21.5
52.5°	1668.5	1657.8	1613.1	1477.8	1307.7	1110.8	803.1	86.9	3.8	11.5	20.8
55°	1352.4	1335.4	1302.4	1219.3	1122.4	949.3	649.3	48.5	3.8	11.5	20.0
57.5°	942.3	951.6	963.1	946.2	901.6	747.7	493.1	21.5	3.8	10.8	20.0
60°	792.3	784.6	785.4	774.6	700.8	545.4	339.2	8.5	3.8	10.0	19.2
62.5°	473.1	478.5	488.5	490.8	417.7	304.6	177.7	3.8	3.8	9.2	18.5
65°	177.7	186.2	163.1	141.5	112.3	82.3	41.5	3.1	4.6	8.5	16.9
67.5°	5.4	6.2	7.7	6.9	6.9	6.2	4.6	3.1	4.6	7.7	16.2
70°	3.8	3.8	3.8	3.8	3.8	3.1	3.1	3.1	3.8	6.9	14.6
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.8	6.2	13.1
75°	2.3	3.1	2.3	2.3	2.3	2.3	2.3	2.3	3.8	5.4	10.8
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	4.6	9.2
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.3	3.1	3.8	7.7
82.5°	1.5	1.5	1.5	0.8	1.5	1.5	1.5	1.5	3.1	3.1	6.2
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	2.3	3.1	3.8
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.5	2.3	2.3	2.3
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°	53.8	53.8	53.8
2.5°	50.8	50.8	50.8
5°	49.2	49.2	49.2
7.5°	47.7	47.7	47.7
10°	46.2	46.2	46.2
12.5°	44.6	44.6	45.4
15°	42.3	43.8	43.8
17.5°	40.8	42.3	43.1
20°	39.2	40.8	41.5
22.5°	36.9	39.2	40.8
25°	35.4	38.5	39.2
27.5°	33.8	37.7	39.2
30°	33.1	36.9	38.5
32.5°	31.5	36.2	37.7
35°	30.8	36.2	37.7
37.5°	30.8	35.4	37.7
40°	30.0	35.4	37.7
42.5°	30.0	35.4	37.7
45°	30.0	35.4	37.7
47.5°	29.2	35.4	38.5
50°	29.2	36.2	38.5
52.5°	29.2	36.2	38.5
55°	29.2	36.2	37.7
57.5°	28.5	35.4	37.7
60°	28.5	35.4	37.7
62.5°	26.9	34.6	36.9
65°	26.2	33.8	36.2
67.5°	24.6	33.1	34.6
70°	23.1	30.8	33.1
72.5°	20.8	29.2	31.5
75°	18.5	26.9	28.5
77.5°	16.2	23.8	25.4
80°	13.1	20.0	21.5
82.5°	10.0	15.4	16.2
85°	6.9	10.0	10.8
87.5°	3.1	4.6	5.4
90°	0.0	0.0	0.0

(END OF REPORT)