

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: P1318516

Luminaire Tested: LDSQA3D17R359830DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318516
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: LDSQA3D17R359830DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R35 optic, 3000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

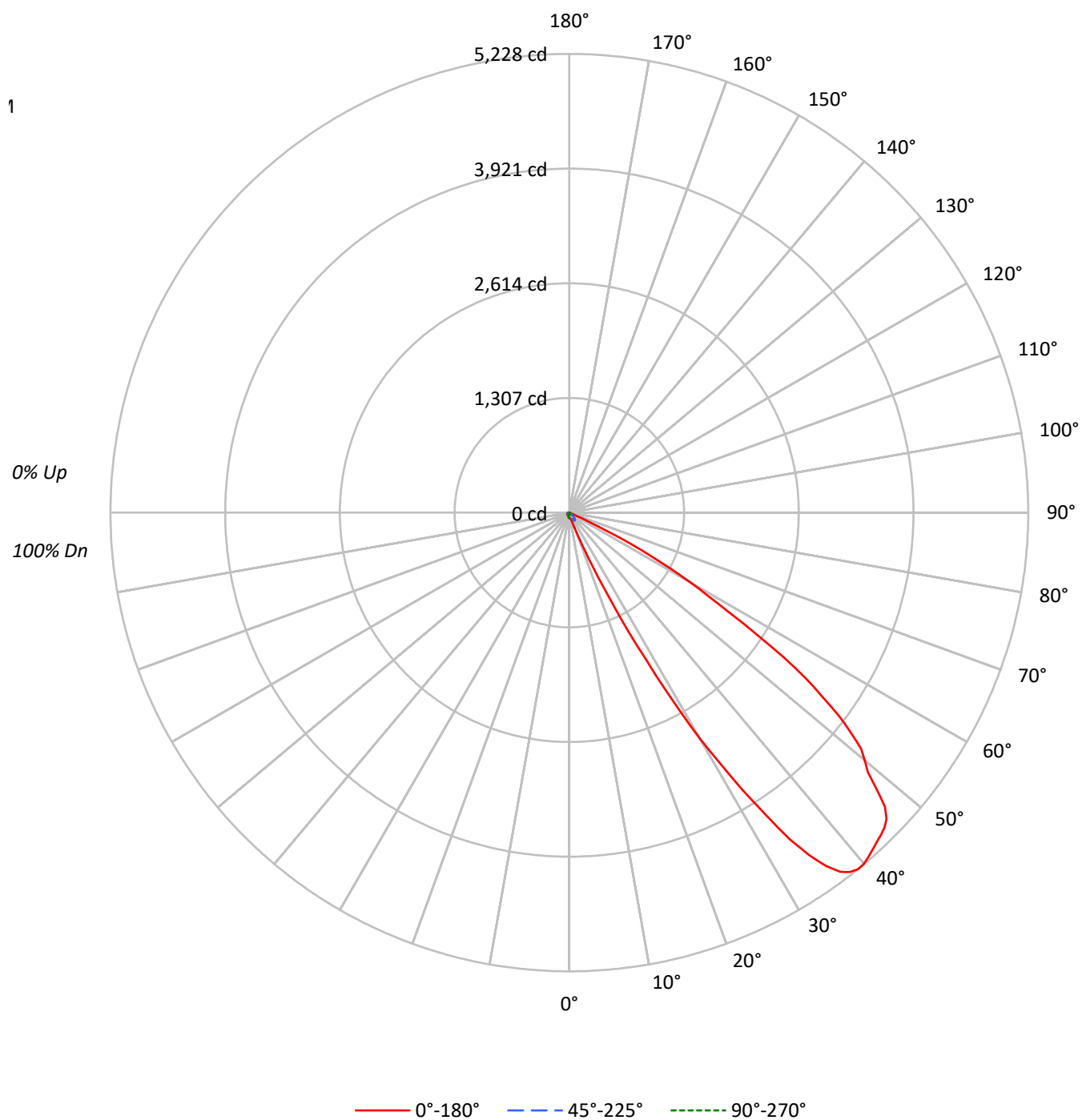
Lumens per Lamp: N/A
Luminaire Lumens: 1302.0 lumens
Efficiency: N/A
Efficacy: 63.8 lumens/watt
Spacing Criteria (0/90/45): 4.01 / 0.66 / 1.41
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	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°	10316	10316	10316	10316	10316
5°	11168	10978	10165	9145	8938
10°	11717	10685	9041	7817	7817
15°	16760	10484	7328	6704	6918
20°	42007	11198	5810	5810	6470
25°	194986	14290	4466	5359	6024
30°	592739	19409	3500	4912	6085
35°	1001775	22496	2964	4688	5929
40°	1174283	22190	2383	4766	6340
45°	1236649	15734	1997	5163	6868
50°	1177127	9458	1902	5359	7556
55°	986387	3873	2132	6005	8828
60°	552215	827	2446	6889	9713
65°	95317	489	2404	7661	11003
70°	1762	604	2971	8308	12438
75°	1597	799	3926	9382	14107
80°	1190	1190	4661	10513	16365
85°	0	2371	9287	11659	18575

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 46°

Luminance: 1245423 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	0.4
10°-20°	15.3	1.2
20°-30°	79.9	6.1
30°-40°	345.0	26.5
40°-50°	492.1	37.8
50°-60°	304.8	23.4
60°-70°	46.4	3.6
70°-80°	8.7	0.7
80°-90°	4.3	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°	100.6	7.7
0°-40°	445.7	34.2
0°-60°	1242.6	95.4
0°-90°	1302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1302.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	60	60	60	60	60	
5°	65	64	59	53	52	6
15°	94	59	41	38	39	34
25°	1026	75	24	28	32	614
35°	4765	107	14	22	28	2861
45°	5077	65	8	21	28	3836
55°	3285	13	7	20	29	2798
65°	234	1	6	19	27	478
75°	2	1	6	14	21	3
85°	0	1	5	6	9	0
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°	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
2.5°	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	59.9	58.8
5°	64.6	64.6	63.5	63.5	63.5	63.5	63.5	63.5	61.1	58.8	55.2
7.5°	65.8	65.8	64.6	64.6	64.6	64.6	63.5	62.3	59.9	55.2	51.7
10°	67.0	67.0	67.0	67.0	65.8	64.6	63.5	61.1	57.6	51.7	48.2
12.5°	75.2	75.2	74.0	71.7	69.3	67.0	64.6	59.9	52.9	47.0	43.5
15°	94.0	92.9	90.5	87.0	82.3	76.4	71.7	58.8	48.2	41.1	38.8
17.5°	131.6	129.3	125.8	114.0	103.4	92.9	83.4	58.8	43.5	36.4	34.1
20°	229.2	230.4	205.7	177.5	154.0	128.1	104.6	61.1	38.8	31.7	30.6
22.5°	478.4	459.6	400.8	332.6	253.9	196.3	148.1	67.0	34.1	27.0	27.0
25°	1026.1	954.4	812.2	613.5	432.5	306.8	215.1	75.2	30.6	23.5	24.7
27.5°	1873.5	1808.8	1523.2	1147.1	761.6	463.1	291.5	85.8	27.0	20.0	22.3
30°	2980.6	2802.0	2429.4	1880.5	1272.9	708.7	391.4	97.6	22.3	17.6	21.2
31°	3326.2	3243.9	2790.2	2175.5	1491.5	841.5	433.7	101.1	21.2	17.6	20.0
32°	3736.4	3590.6	3184.0	2498.8	1713.6	960.2	484.2	104.6	20.0	15.3	20.0
33°	4103.1	3962.0	3467.2	2783.2	1938.1	1095.4	538.3	105.8	17.6	15.3	18.8
34°	4488.6	4295.8	3805.7	3080.5	2168.5	1241.2	587.7	107.0	16.5	14.1	18.8
35°	4764.8	4572.0	4097.2	3315.6	2367.1	1370.4	644.1	107.0	15.3	14.1	17.6
36°	4978.7	4809.5	4348.7	3557.7	2564.6	1486.8	688.7	107.0	12.9	12.9	17.6
37°	5125.6	4964.6	4518.0	3765.8	2715.0	1590.2	728.7	107.0	11.8	12.9	17.6
38°	5197.3	5063.3	4681.4	3917.4	2860.8	1671.3	760.4	104.6	10.6	11.8	16.5
39°	5227.9	5118.6	4781.3	4045.5	2970.1	1741.8	783.9	102.3	9.4	11.8	16.5
40°	5223.2	5128.0	4837.7	4133.6	3058.2	1790.0	796.9	98.7	8.2	10.6	16.5
41°	5196.2	5113.9	4867.1	4208.9	3111.1	1822.9	800.4	95.2	7.1	10.6	15.3
42°	5165.6	5090.4	4876.5	4248.8	3145.2	1833.5	791.0	90.5	7.1	9.4	15.3
43°	5133.9	5064.5	4876.5	4261.8	3153.4	1826.5	775.7	82.3	5.9	9.4	15.3
44°	5108.0	5042.2	4861.2	4258.2	3135.8	1799.4	747.5	72.9	4.7	9.4	15.3
45°	5077.4	5012.8	4841.2	4235.9	3101.7	1753.6	712.3	64.6	3.5	8.2	15.3
46°	5023.4	4972.8	4805.9	4190.1	3047.6	1690.1	667.6	58.8	2.4	8.2	14.1
47°	4918.8	4875.3	4737.8	4121.9	2975.9	1614.9	621.8	52.9	2.4	8.2	14.1
48°	4708.4	4707.2	4601.4	3995.0	2861.9	1520.9	573.6	47.0	2.4	8.2	14.1
49°	4505.1	4483.9	4352.3	3771.6	2698.6	1408.0	523.0	42.3	1.2	8.2	14.1
50°	4393.4	4347.6	4131.3	3508.4	2489.4	1251.7	469.0	35.3	1.2	7.1	14.1
51°	4277.0	4211.2	3956.2	3271.0	2240.2	1101.3	410.2	28.2	1.2	7.1	12.9
52°	4066.7	4004.4	3718.8	3044.1	1998.1	947.3	353.8	23.5	1.2	7.1	14.1
53°	3839.8	3750.5	3440.2	2794.9	1785.3	811.0	296.2	20.0	1.2	7.1	12.9
54°	3554.2	3514.2	3158.1	2489.4	1536.2	679.3	243.3	16.5	1.2	7.1	12.9
55°	3285.1	3226.3	2856.1	2176.7	1310.5	557.1	203.3	12.9	1.2	7.1	12.9
56°	2941.9	2853.7	2507.0	1889.9	1081.3	449.0	171.6	10.6	1.2	7.1	12.9
57°	2532.8	2438.8	2165.0	1571.4	848.6	342.0	143.4	8.2	1.2	7.1	12.9
58°	2142.6	2061.5	1767.7	1212.9	639.4	237.4	118.7	5.9	1.2	5.9	12.9
59°	1851.2	1761.8	1470.3	933.2	444.3	175.1	89.3	4.7	1.2	7.1	12.9
60°	1603.2	1488.0	1183.6	722.8	317.3	125.8	65.8	2.4	2.4	7.1	12.9
62.5°	923.8	815.7	565.3	293.8	130.5	64.6	31.7	1.2	2.4	7.1	12.9
65°	233.9	208.0	135.2	63.5	36.4	22.3	11.8	1.2	2.4	5.9	11.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	8.2	8.2	8.2	7.1	5.9	4.7	2.4	1.2	2.4	5.9	11.8
70°	3.5	3.5	3.5	2.4	2.4	1.2	1.2	1.2	2.4	5.9	10.6
72.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	3.5	5.9	9.4
75°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	3.5	5.9	9.4
77.5°	2.4	2.4	1.2	1.2	1.2	1.2	1.2	1.2	3.5	4.7	8.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.5	4.7	7.1
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.5	4.7	5.9
85°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	3.5	4.7	4.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.5	4.7	3.5
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°	59.9	59.9	59.9
2.5°	56.4	56.4	56.4
5°	52.9	52.9	51.7
7.5°	49.4	48.2	48.2
10°	44.7	44.7	44.7
12.5°	41.1	41.1	41.1
15°	37.6	38.8	38.8
17.5°	34.1	36.4	36.4
20°	31.7	34.1	35.3
22.5°	29.4	31.7	32.9
25°	28.2	30.6	31.7
27.5°	25.9	29.4	31.7
30°	24.7	28.2	30.6
31°	24.7	28.2	29.4
32°	23.5	28.2	29.4
33°	23.5	28.2	29.4
34°	23.5	27.0	29.4
35°	22.3	27.0	28.2
36°	22.3	27.0	28.2
37°	22.3	27.0	29.4
38°	22.3	27.0	28.2
39°	21.2	27.0	28.2
40°	21.2	27.0	28.2
41°	21.2	27.0	28.2
42°	21.2	27.0	28.2
43°	21.2	27.0	28.2
44°	21.2	25.9	28.2
45°	21.2	25.9	28.2
46°	21.2	27.0	28.2
47°	21.2	27.0	29.4
48°	21.2	25.9	28.2
49°	20.0	25.9	28.2
50°	20.0	25.9	28.2
51°	20.0	27.0	29.4
52°	20.0	27.0	29.4
53°	20.0	27.0	29.4
54°	20.0	27.0	28.2
55°	20.0	27.0	29.4
56°	20.0	27.0	28.2
57°	20.0	27.0	28.2
58°	20.0	25.9	28.2
59°	20.0	25.9	28.2
60°	20.0	25.9	28.2
62.5°	18.8	25.9	28.2
65°	18.8	24.7	27.0



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
67.5°	17.6	24.7	25.9
70°	16.5	23.5	24.7
72.5°	15.3	22.3	23.5
75°	14.1	20.0	21.2
77.5°	11.8	17.6	20.0
80°	10.6	15.3	16.5
82.5°	8.2	12.9	14.1
85°	5.9	9.4	9.4
87.5°	2.4	4.7	4.7
90°	0.0	0.0	0.0

(END OF REPORT)