

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: P1307472

Luminaire Tested: LDSQA3D20R359024D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

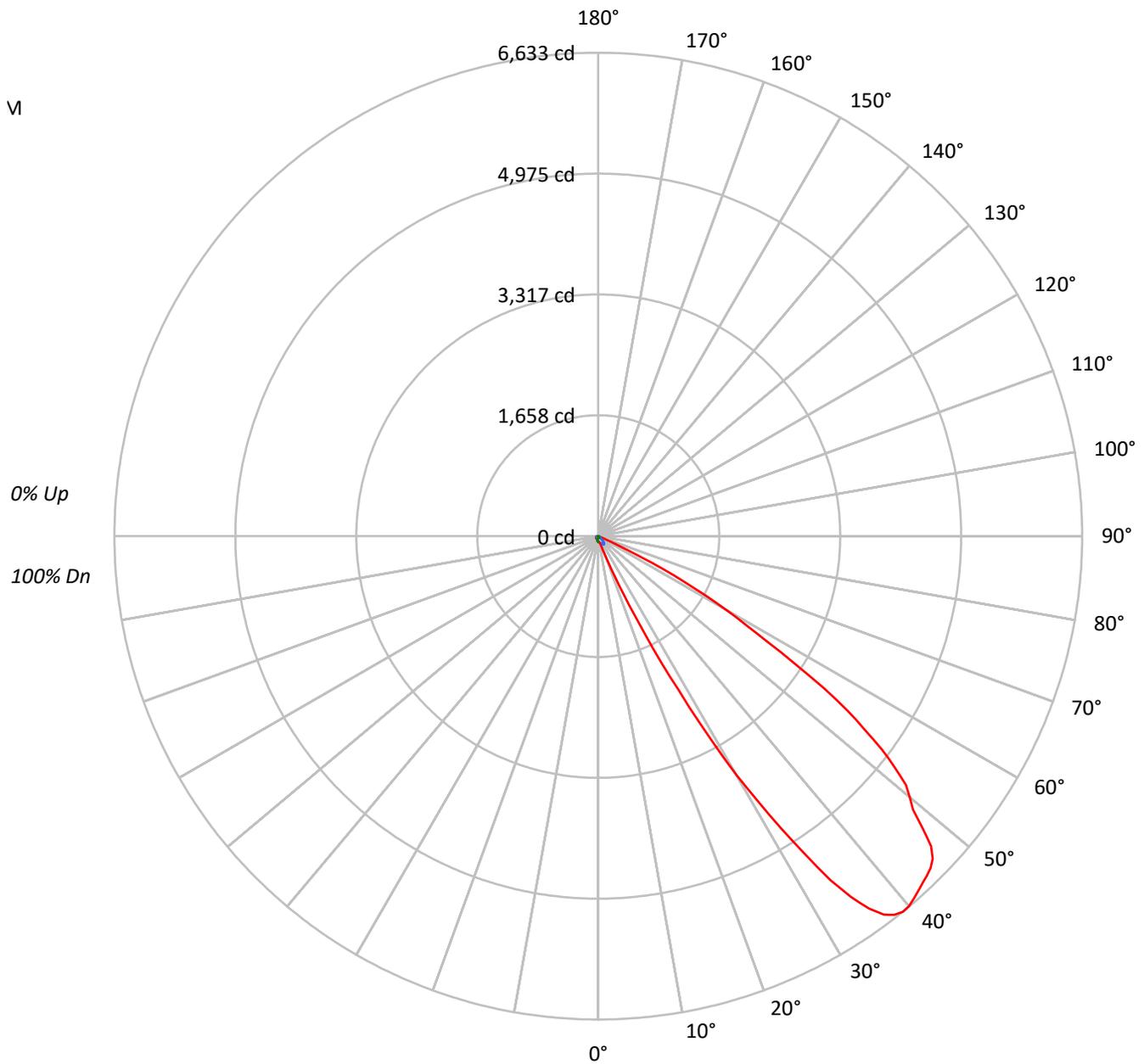
Test Method: LM-79-2019  
Report Number: P1307472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R359024D010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R35 optic, 2400K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1652.0 lumens  
Efficiency: N/A  
Efficacy: 57.4 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): 28.8  
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



— 0°-180°    - - - 45°-225°    ···· 90°-270°



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CATALOG NUMBER: LDSQA3D20R359024D010 3LSQCA45R 1MMS

**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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100	
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87	
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	75	73	
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	63	63	63	61	
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50	
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	44	44	44	42	
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	37	37	37	35	
7	62	48	38	32	60	47	38	32	45	37	32	44	37	31	42	36	31	31	31	31	29	
8	57	42	33	27	55	41	33	27	40	32	27	39	32	26	38	31	26	26	26	26	24	
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	22	22	22	20	
10	48	34	25	19	46	33	25	19	32	25	19	31	24	19	30	24	19	19	19	19	17	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	13106	13106	13106	13106	13106
5°	14176	13917	12897	11600	11341
10°	14865	13553	11472	9916	9916
15°	21271	13301	9307	8505	8772
20°	53297	14204	7386	7386	8192
25°	247396	18129	5663	6803	7658
30°	752090	24620	4455	6224	7716
35°	1271078	28530	3763	5950	7527
40°	1489954	28170	3013	6025	8049
45°	1569084	19972	2533	6527	8719
50°	1493554	11977	2385	6805	9592
55°	1251518	4924	2672	7627	11200
60°	700636	1033	3066	8749	12331
65°	120950	611	3056	9740	13978
70°	2266	755	3777	10524	15761
75°	1996	998	4991	11911	17833
80°	1488	1488	5951	13290	20728
85°	0	2964	11856	14820	23515

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 46°  
 Luminance: 1580195 cd/sqm



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CATALOG NUMBER: LDSQA3D20R359024D010 3LSQCA45R 1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.9	0.4
10°-20°	19.5	1.2
20°-30°	101.4	6.1
30°-40°	437.8	26.5
40°-50°	624.4	37.8
50°-60°	386.7	23.4
60°-70°	58.9	3.6
70°-80°	11.0	0.7
80°-90°	5.5	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°	127.7	7.7
0°-40°	565.5	34.2
0°-60°	1576.6	95.4
0°-90°	1652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1652.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	76	76	76	76	76	
5°	82	80	75	67	66	8
15°	119	75	52	48	49	43
25°	1302	95	30	36	40	779
35°	6046	136	18	28	36	3630
45°	6442	82	10	27	36	4867
55°	4168	16	9	25	37	3550
65°	297	2	8	24	34	606
75°	3	2	8	18	27	3
85°	0	2	6	8	12	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°	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
2.5°	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	76.1	74.6
5°	82.0	82.0	80.5	80.5	80.5	80.5	80.5	80.5	77.5	74.6	70.1
7.5°	83.5	83.5	82.0	82.0	82.0	82.0	80.5	79.0	76.1	70.1	65.6
10°	85.0	85.0	85.0	85.0	83.5	82.0	80.5	77.5	73.1	65.6	61.1
12.5°	95.4	95.4	94.0	91.0	88.0	85.0	82.0	76.1	67.1	59.7	55.2
15°	119.3	117.8	114.8	110.4	104.4	96.9	91.0	74.6	61.1	52.2	49.2
17.5°	167.0	164.0	159.6	144.7	131.2	117.8	105.9	74.6	55.2	46.2	43.2
20°	290.8	292.3	261.0	225.2	195.4	162.5	132.7	77.5	49.2	40.3	38.8
22.5°	607.0	583.1	508.5	422.0	322.1	249.0	187.9	85.0	43.2	34.3	34.3
25°	1301.9	1210.9	1030.5	778.5	548.8	389.2	272.9	95.4	38.8	29.8	31.3
27.5°	2377.1	2295.1	1932.7	1455.5	966.4	587.6	369.8	108.9	34.3	25.4	28.3
30°	3781.9	3555.2	3082.5	2386.1	1615.1	899.2	496.6	123.8	28.3	22.4	26.8
31°	4220.3	4115.9	3540.3	2760.4	1892.4	1067.8	550.3	128.3	26.8	22.4	25.4
32°	4740.8	4555.9	4039.9	3170.5	2174.3	1218.4	614.4	132.7	25.4	19.4	25.4
33°	5206.1	5027.1	4399.3	3531.4	2459.1	1389.9	683.0	134.2	22.4	19.4	23.9
34°	5695.2	5450.6	4828.8	3908.7	2751.4	1574.8	745.6	135.7	20.9	17.9	23.9
35°	6045.7	5801.1	5198.6	4206.9	3003.4	1738.8	817.2	135.7	19.4	17.9	22.4
36°	6317.1	6102.3	5517.7	4514.1	3254.0	1886.5	873.9	135.7	16.4	16.4	22.4
37°	6503.5	6299.2	5732.5	4778.1	3444.9	2017.7	924.6	135.7	14.9	16.4	22.4
38°	6594.5	6424.4	5939.8	4970.4	3629.8	2120.6	964.9	132.7	13.4	14.9	20.9
39°	6633.2	6494.5	6066.5	5133.0	3768.5	2210.1	994.7	129.7	11.9	14.9	20.9
40°	6627.3	6506.5	6138.1	5244.8	3880.3	2271.2	1011.1	125.3	10.4	13.4	20.9
41°	6593.0	6488.6	6175.4	5340.3	3947.4	2313.0	1015.6	120.8	8.9	13.4	19.4
42°	6554.2	6458.7	6187.3	5391.0	3990.7	2326.4	1003.6	114.8	8.9	11.9	19.4
43°	6513.9	6425.9	6187.3	5407.4	4001.1	2317.5	984.2	104.4	7.5	11.9	19.4
44°	6481.1	6397.6	6167.9	5402.9	3978.7	2283.2	948.5	92.5	6.0	11.9	19.4
45°	6442.3	6360.3	6142.6	5374.6	3935.5	2225.0	903.7	82.0	4.5	10.4	19.4
46°	6373.7	6309.6	6097.9	5316.4	3866.9	2144.5	847.0	74.6	3.0	10.4	17.9
47°	6241.0	6185.8	6011.4	5229.9	3775.9	2049.0	788.9	67.1	3.0	10.4	17.9
48°	5974.1	5972.6	5838.4	5068.9	3631.3	1929.7	727.7	59.7	3.0	10.4	17.9
49°	5716.1	5689.2	5522.2	4785.5	3424.0	1786.6	663.6	53.7	1.5	10.4	17.9
50°	5574.4	5516.3	5241.9	4451.5	3158.5	1588.2	595.0	44.7	1.5	8.9	17.9
51°	5426.8	5343.3	5019.7	4150.2	2842.4	1397.3	520.5	35.8	1.5	8.9	16.4
52°	5159.8	5080.8	4718.4	3862.4	2535.2	1202.0	448.9	29.8	1.5	8.9	17.9
53°	4872.0	4758.7	4365.0	3546.3	2265.3	1029.0	375.8	25.4	1.5	8.9	16.4
54°	4509.6	4458.9	4007.1	3158.5	1949.1	862.0	308.7	20.9	1.5	8.9	16.4
55°	4168.1	4093.6	3623.8	2761.9	1662.8	706.9	258.0	16.4	1.5	8.9	16.4
56°	3732.7	3620.8	3180.9	2398.0	1372.0	569.7	217.7	13.4	1.5	8.9	16.4
57°	3213.7	3094.4	2746.9	1993.8	1076.7	434.0	181.9	10.4	1.5	8.9	16.4
58°	2718.6	2615.7	2242.9	1539.0	811.3	301.2	150.6	7.5	1.5	7.5	16.4
59°	2348.8	2235.4	1865.6	1184.1	563.7	222.2	113.3	6.0	1.5	8.9	16.4
60°	2034.1	1888.0	1501.7	917.1	402.6	159.6	83.5	3.0	3.0	8.9	16.4
62.5°	1172.1	1035.0	717.3	372.8	165.5	82.0	40.3	1.5	3.0	8.9	16.4
65°	296.8	264.0	171.5	80.5	46.2	28.3	14.9	1.5	3.0	7.5	14.9



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CATALOG NUMBER: LDSQA3D20R359024D010 3LSQCA45R 1MMS

**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	10.4	10.4	10.4	8.9	7.5	6.0	3.0	1.5	3.0	7.5	14.9
70°	4.5	4.5	4.5	3.0	3.0	1.5	1.5	1.5	3.0	7.5	13.4
72.5°	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	4.5	7.5	11.9
75°	3.0	3.0	3.0	3.0	1.5	1.5	1.5	1.5	4.5	7.5	11.9
77.5°	3.0	3.0	1.5	1.5	1.5	1.5	1.5	1.5	4.5	6.0	10.4
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.5	6.0	8.9
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.5	6.0	7.5
85°	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.5	4.5	6.0	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.5	6.0	4.5
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°	76.1	76.1	76.1
2.5°	71.6	71.6	71.6
5°	67.1	67.1	65.6
7.5°	62.6	61.1	61.1
10°	56.7	56.7	56.7
12.5°	52.2	52.2	52.2
15°	47.7	49.2	49.2
17.5°	43.2	46.2	46.2
20°	40.3	43.2	44.7
22.5°	37.3	40.3	41.8
25°	35.8	38.8	40.3
27.5°	32.8	37.3	40.3
30°	31.3	35.8	38.8
31°	31.3	35.8	37.3
32°	29.8	35.8	37.3
33°	29.8	35.8	37.3
34°	29.8	34.3	37.3
35°	28.3	34.3	35.8
36°	28.3	34.3	35.8
37°	28.3	34.3	37.3
38°	28.3	34.3	35.8
39°	26.8	34.3	35.8
40°	26.8	34.3	35.8
41°	26.8	34.3	35.8
42°	26.8	34.3	35.8
43°	26.8	34.3	35.8
44°	26.8	32.8	35.8
45°	26.8	32.8	35.8
46°	26.8	34.3	35.8
47°	26.8	34.3	37.3
48°	26.8	32.8	35.8
49°	25.4	32.8	35.8
50°	25.4	32.8	35.8
51°	25.4	34.3	37.3
52°	25.4	34.3	37.3
53°	25.4	34.3	37.3
54°	25.4	34.3	35.8
55°	25.4	34.3	37.3
56°	25.4	34.3	35.8
57°	25.4	34.3	35.8
58°	25.4	32.8	35.8
59°	25.4	32.8	35.8
60°	25.4	32.8	35.8
62.5°	23.9	32.8	35.8
65°	23.9	31.3	34.3



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**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
67.5°	22.4	31.3	32.8
70°	20.9	29.8	31.3
72.5°	19.4	28.3	29.8
75°	17.9	25.4	26.8
77.5°	14.9	22.4	25.4
80°	13.4	19.4	20.9
82.5°	10.4	16.4	17.9
85°	7.5	11.9	11.9
87.5°	3.0	6.0	6.0
90°	0.0	0.0	0.0

(END OF REPORT)