

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: P1320267

Luminaire Tested: LDSQA3D17R359840DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

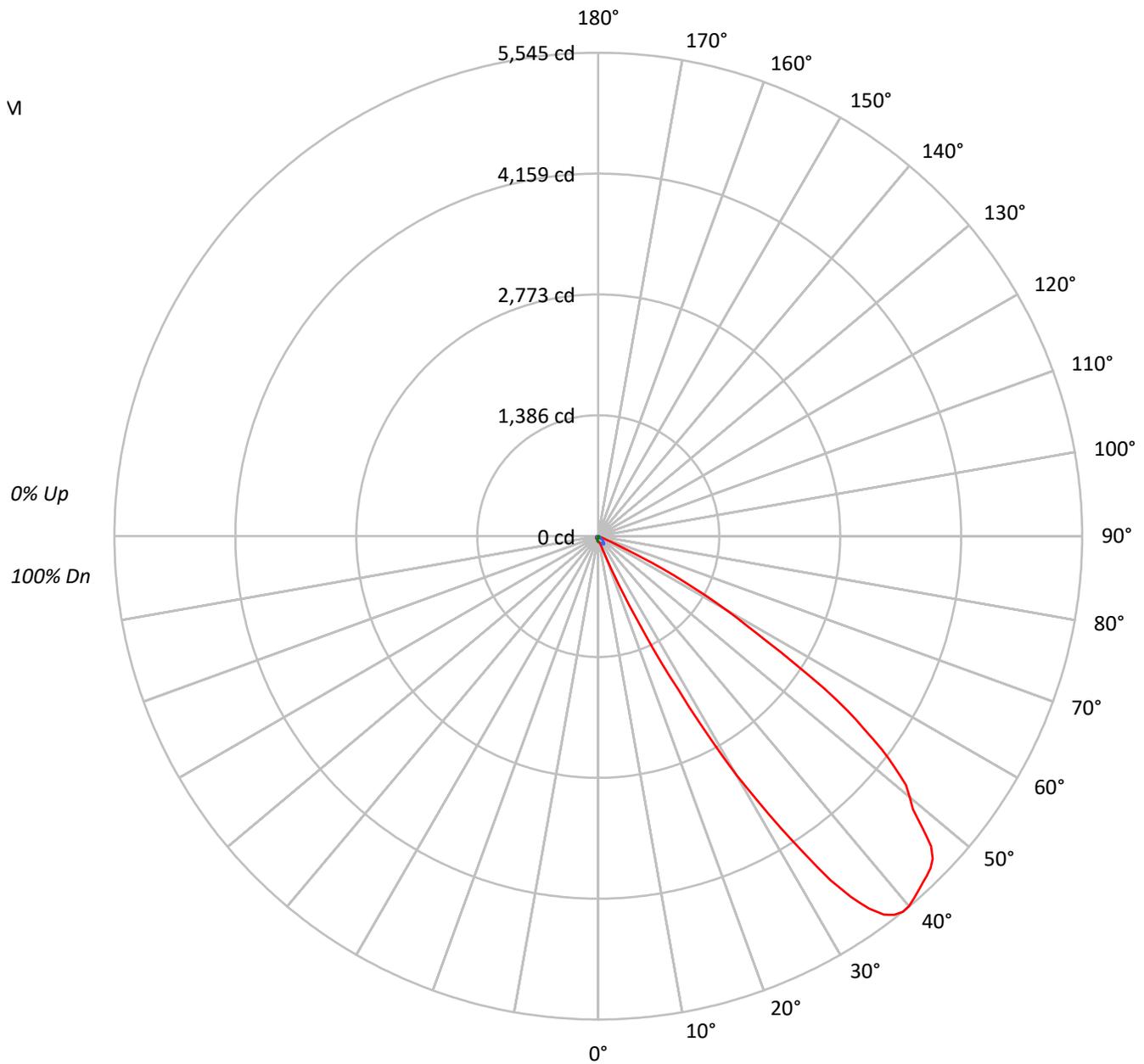
Test Method: LM-79-2019  
Report Number: P1320267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-77)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R359840DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1381.0 lumens  
Efficiency: N/A  
Efficacy: 67.7 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



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



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**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°	10953	10953	10953	10953	10953
5°	11860	11635	10770	9699	9491
10°	12434	11332	9601	8289	8289
15°	17776	11108	7774	7114	7328
20°	44554	11876	6176	6176	6855
25°	206806	15164	4732	5682	6404
30°	628714	20583	3719	5210	6443
35°	1062557	23842	3154	4983	6286
40°	1245529	23539	2518	5036	6722
45°	1311690	16708	2119	5456	7282
50°	1248558	10021	2009	5680	8011
55°	1046229	4114	2252	6366	9368
60°	585695	861	2583	7302	10299
65°	101104	489	2527	8110	11696
70°	1863	604	3122	8812	13193
75°	1664	799	4126	9981	14905
80°	1190	1190	4959	11108	17356
85°	0	2371	9880	12251	19760

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 46°  
 Luminance: 1320990 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.7	0.4
10°-20°	16.3	1.2
20°-30°	84.7	6.1
30°-40°	365.9	26.5
40°-50°	522.0	37.8
50°-60°	323.3	23.4
60°-70°	49.2	3.6
70°-80°	9.2	0.7
80°-90°	4.6	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°	106.8	7.7
0°-40°	472.7	34.2
0°-60°	1318.0	95.4
0°-90°	1381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1381.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	64	64	64	64	64	
5°	69	67	62	56	55	7
15°	100	62	44	40	41	36
25°	1088	80	25	30	34	651
35°	5054	113	15	24	30	3034
45°	5386	69	9	22	30	4069
55°	3484	14	8	21	31	2968
65°	248	1	6	20	29	507
75°	2	1	6	15	22	3
85°	0	1	5	6	10	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°	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
2.5°	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	63.6	62.3
5°	68.6	68.6	67.3	67.3	67.3	67.3	67.3	67.3	64.8	62.3	58.6
7.5°	69.8	69.8	68.6	68.6	68.6	68.6	67.3	66.1	63.6	58.6	54.9
10°	71.1	71.1	71.1	71.1	69.8	68.6	67.3	64.8	61.1	54.9	51.1
12.5°	79.8	79.8	78.5	76.0	73.6	71.1	68.6	63.6	56.1	49.9	46.1
15°	99.7	98.5	96.0	92.3	87.3	81.0	76.0	62.3	51.1	43.6	41.1
17.5°	139.6	137.1	133.4	120.9	109.7	98.5	88.5	62.3	46.1	38.6	36.2
20°	243.1	244.3	218.2	188.2	163.3	135.9	111.0	64.8	41.1	33.7	32.4
22.5°	507.4	487.4	425.1	352.8	269.3	208.2	157.1	71.1	36.2	28.7	28.7
25°	1088.3	1012.3	861.4	650.8	458.8	325.4	228.1	79.8	32.4	24.9	26.2
27.5°	1987.2	1918.6	1615.7	1216.7	807.8	491.2	309.2	91.0	28.7	21.2	23.7
30°	3161.5	2972.0	2576.8	1994.6	1350.1	751.7	415.1	103.5	23.7	18.7	22.4
31°	3528.0	3440.7	2959.5	2307.5	1582.0	892.6	460.0	107.2	22.4	18.7	21.2
32°	3963.1	3808.5	3377.2	2650.4	1817.6	1018.5	513.6	111.0	21.2	16.2	21.2
33°	4352.0	4202.5	3677.6	2952.1	2055.7	1161.9	571.0	112.2	18.7	16.2	19.9
34°	4760.9	4556.5	4036.6	3267.5	2300.1	1316.5	623.3	113.4	17.5	15.0	19.9
35°	5053.9	4849.5	4345.8	3516.8	2510.7	1453.6	683.2	113.4	16.2	15.0	18.7
36°	5280.8	5101.3	4612.6	3773.6	2720.2	1577.0	730.5	113.4	13.7	13.7	18.7
37°	5436.6	5265.8	4792.1	3994.3	2879.8	1686.7	772.9	113.4	12.5	13.7	18.7
38°	5512.7	5370.6	4965.4	4155.1	3034.3	1772.7	806.6	111.0	11.2	12.5	17.5
39°	5545.1	5429.2	5071.4	4291.0	3150.3	1847.5	831.5	108.5	10.0	12.5	17.5
40°	5540.1	5439.1	5131.2	4384.5	3243.8	1898.6	845.2	104.7	8.7	11.2	17.5
41°	5511.4	5424.2	5162.4	4464.2	3299.9	1933.6	849.0	101.0	7.5	11.2	16.2
42°	5479.0	5399.2	5172.3	4506.6	3336.0	1944.8	839.0	96.0	7.5	10.0	16.2
43°	5445.4	5371.8	5172.3	4520.3	3344.8	1937.3	822.8	87.3	6.2	10.0	16.2
44°	5417.9	5348.1	5156.1	4516.6	3326.1	1908.6	792.9	77.3	5.0	10.0	16.2
45°	5385.5	5317.0	5134.9	4492.9	3289.9	1860.0	755.5	68.6	3.7	8.7	16.2
46°	5328.2	5274.6	5097.5	4444.3	3232.6	1792.7	708.1	62.3	2.5	8.7	15.0
47°	5217.2	5171.1	5025.2	4372.0	3156.5	1712.9	659.5	56.1	2.5	8.7	15.0
48°	4994.1	4992.8	4880.6	4237.4	3035.6	1613.2	608.4	49.9	2.5	8.7	15.0
49°	4778.4	4756.0	4616.3	4000.5	2862.3	1493.5	554.8	44.9	1.2	8.7	15.0
50°	4660.0	4611.4	4382.0	3721.2	2640.4	1327.7	497.4	37.4	1.2	7.5	15.0
51°	4536.6	4466.7	4196.2	3469.4	2376.1	1168.1	435.1	29.9	1.2	7.5	13.7
52°	4313.4	4247.3	3944.4	3228.8	2119.3	1004.8	375.2	24.9	1.2	7.5	15.0
53°	4072.8	3978.1	3648.9	2964.5	1893.7	860.2	314.2	21.2	1.2	7.5	13.7
54°	3769.9	3727.5	3349.7	2640.4	1629.4	720.6	258.1	17.5	1.2	7.5	13.7
55°	3484.4	3422.0	3029.4	2308.8	1390.0	590.9	215.7	13.7	1.2	7.5	13.7
56°	3120.4	3026.9	2659.1	2004.6	1146.9	476.2	182.0	11.2	1.2	7.5	13.7
57°	2686.5	2586.8	2296.3	1666.8	900.1	362.8	152.1	8.7	1.2	7.5	13.7
58°	2272.6	2186.6	1875.0	1286.5	678.2	251.8	125.9	6.2	1.2	6.2	13.7
59°	1963.5	1868.7	1559.6	989.8	471.2	185.8	94.7	5.0	1.2	7.5	13.7
60°	1700.4	1578.3	1255.4	766.7	336.6	133.4	69.8	2.5	2.5	7.5	13.7
62.5°	979.9	865.2	599.6	311.7	138.4	68.6	33.7	1.2	2.5	7.5	13.7
65°	248.1	220.7	143.4	67.3	38.6	23.7	12.5	1.2	2.5	6.2	12.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
67.5°	8.7	8.7	8.7	7.5	6.2	5.0	2.5	1.2	2.5	6.2	12.5
70°	3.7	3.7	3.7	2.5	2.5	1.2	1.2	1.2	2.5	6.2	11.2
72.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	3.7	6.2	10.0
75°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	3.7	6.2	10.0
77.5°	2.5	2.5	1.2	1.2	1.2	1.2	1.2	1.2	3.7	5.0	8.7
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7	5.0	7.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	3.7	5.0	6.2
85°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	3.7	5.0	5.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.7	5.0	3.7
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°	63.6	63.6	63.6
2.5°	59.8	59.8	59.8
5°	56.1	56.1	54.9
7.5°	52.4	51.1	51.1
10°	47.4	47.4	47.4
12.5°	43.6	43.6	43.6
15°	39.9	41.1	41.1
17.5°	36.2	38.6	38.6
20°	33.7	36.2	37.4
22.5°	31.2	33.7	34.9
25°	29.9	32.4	33.7
27.5°	27.4	31.2	33.7
30°	26.2	29.9	32.4
31°	26.2	29.9	31.2
32°	24.9	29.9	31.2
33°	24.9	29.9	31.2
34°	24.9	28.7	31.2
35°	23.7	28.7	29.9
36°	23.7	28.7	29.9
37°	23.7	28.7	31.2
38°	23.7	28.7	29.9
39°	22.4	28.7	29.9
40°	22.4	28.7	29.9
41°	22.4	28.7	29.9
42°	22.4	28.7	29.9
43°	22.4	28.7	29.9
44°	22.4	27.4	29.9
45°	22.4	27.4	29.9
46°	22.4	28.7	29.9
47°	22.4	28.7	31.2
48°	22.4	27.4	29.9
49°	21.2	27.4	29.9
50°	21.2	27.4	29.9
51°	21.2	28.7	31.2
52°	21.2	28.7	31.2
53°	21.2	28.7	31.2
54°	21.2	28.7	29.9
55°	21.2	28.7	31.2
56°	21.2	28.7	29.9
57°	21.2	28.7	29.9
58°	21.2	27.4	29.9
59°	21.2	27.4	29.9
60°	21.2	27.4	29.9
62.5°	19.9	27.4	29.9
65°	19.9	26.2	28.7



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**CANDELA DISTRIBUTION (continued):**

	135°	157.5°	180°
67.5°	18.7	26.2	27.4
70°	17.5	24.9	26.2
72.5°	16.2	23.7	24.9
75°	15.0	21.2	22.4
77.5°	12.5	18.7	21.2
80°	11.2	16.2	17.5
82.5°	8.7	13.7	15.0
85°	6.2	10.0	10.0
87.5°	2.5	5.0	5.0
90°	0.0	0.0	0.0

(END OF REPORT)