

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: P1311152

Luminaire Tested: LDSQA3D05R309040DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

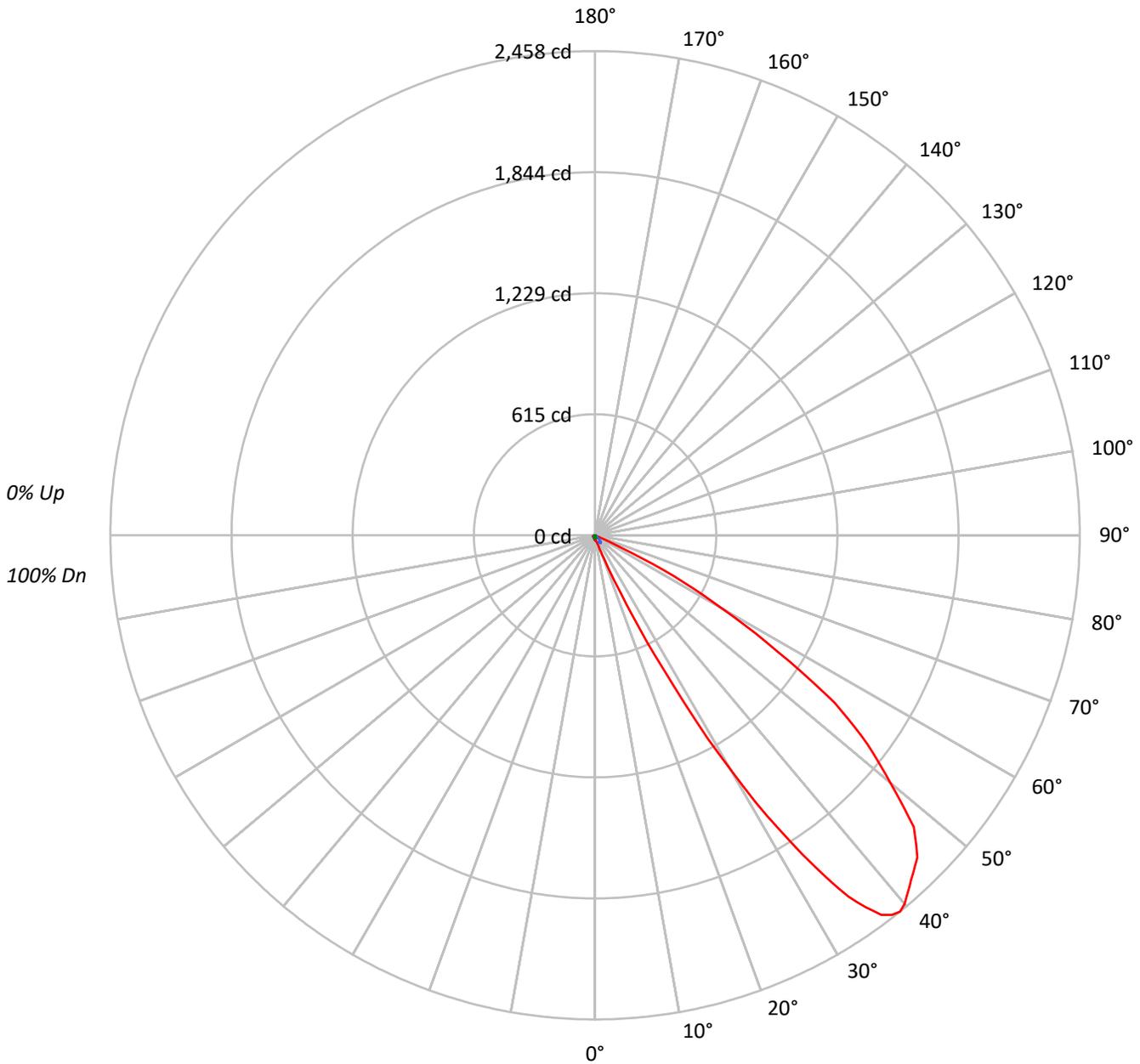
Test Method: LM-79-2019  
Report Number: P1311152  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R309040DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 639.0 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 4.07 / 0.66 / 1.44  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
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	108	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	60	52	45	58	51	45	56	50	44	54	49	44	44	44	44	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	37	37	37	35
7	62	48	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	31	31	31	29
8	56	42	33	27	55	41	33	27	40	32	26	39	32	26	37	31	26	26	26	26	24
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	22	22	22	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	24	19	19	19	19	17

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

	0°	45°	90°	135°	180°
0°	4271	4271	4271	4271	4271
5°	4564	4460	4184	3821	3717
10°	4984	4424	3672	3288	3200
15°	7292	4422	3067	2781	2871
20°	18346	4838	2364	2364	2657
25°	85208	6043	1843	2147	2451
30°	271253	8352	1392	2028	2466
35°	470676	10176	1135	1934	2481
40°	548922	10162	854	1933	2540
45°	562939	7209	926	2095	2752
50°	523510	4046	723	2170	3162
55°	444927	2102	811	2432	3543
60°	256956	551	930	2583	3892
65°	52406	0	1100	3056	4401
70°	806	252	1360	3525	5136
75°	732	333	1464	3593	6122
80°	496	496	2182	4265	6943
85°	0	988	4347	4347	8497

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 562939 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.2	0.4
10°-20°	6.4	1.0
20°-30°	36.9	5.8
30°-40°	172.1	26.9
40°-50°	243.4	38.1
50°-60°	149.7	23.4
60°-70°	22.8	3.6
70°-80°	3.6	0.6
80°-90°	1.8	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°	45.5	7.1
0°-40°	217.6	34.1
0°-60°	610.8	95.6
0°-90°	639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	639.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	26	26	24	22	22	3
15°	41	25	17	16	16	15
25°	448	32	10	11	13	276
35°	2239	48	5	9	12	1344
45°	2311	30	4	9	11	1752
55°	1482	7	3	8	12	1261
65°	129	0	3	8	11	233
75°	1	0	2	5	9	1
85°	0	0	2	2	4	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
2.5°	25.3	25.3	25.8	25.8	25.3	25.8	25.8	25.8	24.8	24.2	23.1
5°	26.4	26.4	26.4	26.9	26.4	26.4	25.8	25.3	24.2	22.6	22.1
7.5°	27.5	27.5	26.9	27.5	26.9	26.9	25.8	24.8	23.1	21.5	20.5
10°	28.5	28.5	28.0	28.0	27.5	27.5	25.3	23.7	21.0	19.4	18.8
12.5°	31.8	31.8	31.2	30.7	29.6	29.1	24.8	22.1	18.8	17.2	16.7
15°	40.9	40.4	39.3	37.7	35.0	34.4	24.8	20.5	17.2	15.6	15.6
17.5°	56.0	55.4	53.8	49.5	44.7	43.1	24.8	18.3	15.1	14.0	14.0
20°	100.1	95.8	87.7	77.0	65.7	59.7	26.4	16.1	12.9	12.4	12.9
21°	130.8	126.5	116.3	98.5	78.6	72.1	27.5	15.6	12.4	11.8	12.9
22°	178.2	173.3	152.3	128.1	99.6	88.3	28.0	14.5	11.3	11.3	12.4
23°	248.7	240.6	205.1	166.3	124.3	108.2	29.1	14.0	10.8	11.3	11.8
24°	325.7	318.7	278.3	220.2	158.8	135.6	30.1	13.5	10.2	10.2	11.3
25°	448.4	440.3	368.7	277.7	201.3	163.1	31.8	12.4	9.7	9.7	11.3
26°	607.2	570.0	474.8	357.9	248.1	204.5	33.4	11.8	9.2	9.7	10.8
27°	757.9	727.2	620.1	459.1	306.8	251.4	35.5	11.3	8.6	9.2	10.8
28°	956.0	912.9	777.8	580.8	386.5	304.1	37.7	10.8	8.1	9.2	10.2
29°	1177.7	1117.4	954.3	717.5	476.4	363.3	39.8	10.2	7.5	8.6	10.2
30°	1364.0	1307.4	1144.4	879.5	579.7	441.4	42.0	9.7	7.0	8.6	10.2
31°	1582.5	1496.9	1299.4	1016.8	668.5	519.4	44.1	8.6	6.5	8.1	9.7
32°	1759.6	1699.8	1489.9	1171.8	785.3	605.5	45.8	8.1	6.5	8.1	9.7
33°	1930.8	1850.6	1647.6	1320.4	890.8	693.8	47.4	7.5	5.9	7.5	9.7
34°	2094.4	2020.7	1796.7	1440.4	990.4	777.8	48.4	6.5	5.9	7.5	9.2
35°	2238.7	2153.1	1928.1	1557.7	1092.7	854.2	48.4	5.9	5.4	7.0	9.2
36°	2332.3	2270.9	2042.2	1673.5	1185.3	926.9	48.4	5.4	4.8	7.0	8.6
37°	2412.5	2340.9	2133.7	1762.3	1253.6	985.0	48.4	4.8	4.8	7.0	8.6
38°	2445.3	2384.0	2196.7	1840.9	1317.7	1044.2	47.9	4.3	4.3	6.5	8.6
39°	2458.3	2403.4	2244.0	1897.4	1365.0	1084.1	46.8	3.8	4.3	6.5	8.6
40°	2441.6	2400.1	2268.3	1934.0	1402.7	1113.1	45.2	3.2	3.8	6.5	8.6
42.5°	2372.7	2345.2	2262.9	1970.6	1435.0	1134.7	39.3	2.2	3.8	5.9	8.6
45°	2311.3	2281.2	2208.5	1932.4	1393.0	1092.1	29.6	1.1	3.8	5.9	8.6
47.5°	2192.4	2173.5	2116.5	1835.0	1301.0	996.3	21.0	0.5	3.2	5.4	8.1
50°	1953.9	1936.1	1860.8	1593.3	1119.1	842.4	15.1	0.5	2.7	5.4	8.1
52.5°	1740.2	1721.4	1613.2	1324.7	859.6	617.4	9.7	0.5	2.7	5.4	8.1
55°	1481.8	1449.0	1306.9	1005.5	609.3	413.9	7.0	0.5	2.7	4.8	8.1
57.5°	1097.0	1049.1	922.1	685.8	350.9	224.5	3.8	0.5	2.7	4.8	8.1
60°	746.0	717.5	577.0	361.7	149.6	94.7	1.6	0.5	2.7	4.8	7.5
62.5°	452.1	416.1	290.1	153.9	64.6	43.1	0.0	1.1	2.7	4.8	7.5
65°	128.6	114.1	75.9	35.0	18.3	14.0	0.0	1.1	2.7	4.8	7.5
67.5°	4.3	4.3	4.3	3.8	2.7	2.7	0.5	1.1	2.7	4.8	7.0
70°	1.6	1.6	1.6	1.1	1.1	0.5	0.5	1.1	2.7	4.3	7.0
72.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	1.1	2.2	3.8	6.5
75°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	1.6	2.2	3.8	5.4
77.5°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	1.6	2.2	3.2	5.4
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6	2.2	3.2	4.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.5	1.6	2.2	2.2	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	2.2	1.6	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	1.6	1.6	1.1
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):**

	157.5°	180°
0°	24.8	24.8
2.5°	23.1	23.1
5°	21.5	21.5
7.5°	19.9	19.9
10°	18.3	18.3
12.5°	17.2	17.2
15°	15.6	16.1
17.5°	14.5	15.1
20°	14.0	14.5
21°	14.0	14.5
22°	13.5	14.0
23°	13.5	14.0
24°	12.9	13.5
25°	12.4	12.9
26°	12.4	12.9
27°	12.4	12.9
28°	11.8	12.9
29°	11.8	12.4
30°	11.8	12.4
31°	11.3	12.4
32°	11.3	12.4
33°	11.3	11.8
34°	10.8	11.8
35°	10.8	11.8
36°	10.8	11.8
37°	10.8	11.3
38°	10.8	11.8
39°	10.8	11.3
40°	10.8	11.3
42.5°	10.8	11.3
45°	10.8	11.3
47.5°	10.8	11.8
50°	10.8	11.8
52.5°	10.8	11.8
55°	10.8	11.8
57.5°	10.8	11.3
60°	10.8	11.3
62.5°	10.2	11.3
65°	10.2	10.8
67.5°	10.2	10.8
70°	9.7	10.2
72.5°	9.2	9.7
75°	8.1	9.2
77.5°	7.5	8.1
80°	6.5	7.0



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**CANDELA DISTRIBUTION (continued):**

	157.5°	180°
82.5°	5.4	5.4
85°	3.8	4.3
87.5°	2.2	2.2
90°	0.0	0.0

(END OF REPORT)