

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: P1307360

Luminaire Tested: LDSQA3D17R509024DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307360  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R509024DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

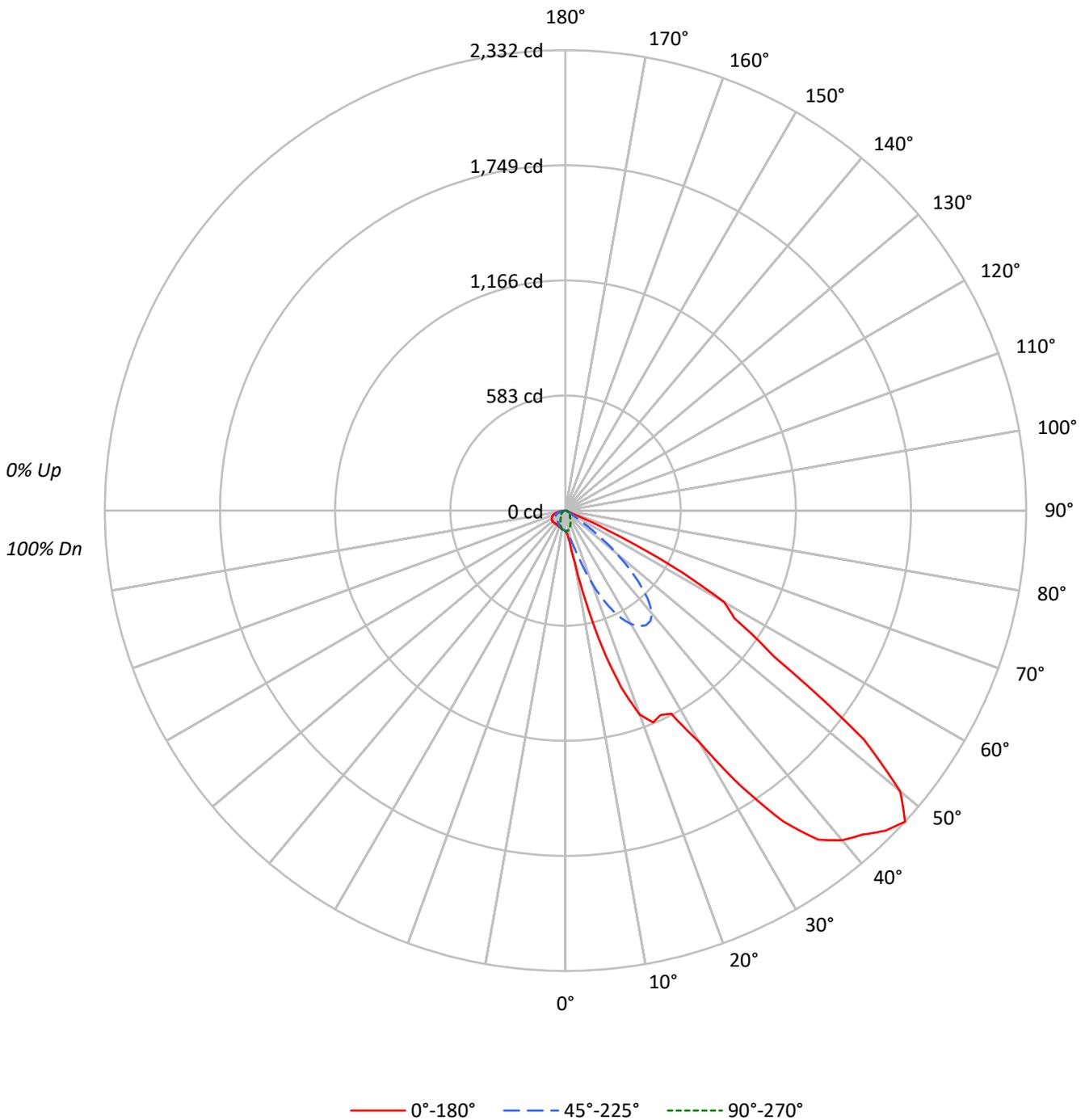
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1315.0 lumens  
Efficiency: N/A  
Efficacy: 62.0 lumens/watt  
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 21.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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			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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	63	61
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	39	39	39	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	33	33	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	29	29	29	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	25	25	25	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	22	22	22	20

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

	0°	45°	90°	135°	180°
0°	17997	17997	17997	17997	17997
5°	21403	20037	17876	17081	16890
10°	46081	24833	17086	16491	16683
15°	127590	40705	15387	15797	16403
20°	201713	71404	13324	15194	16037
25°	216915	104895	11440	14670	16190
30°	269244	131689	9943	14458	16725
35°	404049	149001	8599	14570	17682
40°	490019	153215	7666	15063	18638
45°	558263	131400	7477	16051	20483
50°	592502	90695	7609	17335	22828
55°	387096	36482	7507	18766	25252
60°	319232	6269	7440	20357	27762
65°	96255	3260	6928	21761	30564
70°	4028	3424	6848	22307	33184
75°	3793	3793	6787	22691	36265
80°	3372	3372	6744	22514	37192
85°	2174	4545	8892	22527	35964

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 594427 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.9	0.8
10°-20°	62.3	4.7
20°-30°	160.1	12.2
30°-40°	287.5	21.9
40°-50°	384.1	29.2
50°-60°	292.5	22.2
60°-70°	88.8	6.8
70°-80°	21.2	1.6
80°-90°	7.7	0.6
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°	233.2	17.7
0°-40°	520.7	39.6
0°-60°	1197.3	91.1
0°-90°	1315.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1315.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	104	104	104	104	104	
5°	124	116	103	99	98	16
15°	716	228	86	89	92	211
25°	1142	552	60	77	85	545
35°	1922	709	41	69	84	1180
45°	2292	540	31	66	84	1752
55°	1289	122	25	62	84	1283
65°	236	8	17	53	75	327
75°	6	6	10	34	54	6
85°	1	2	4	11	18	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
2.5°	111.3	111.3	111.3	111.3	111.3	111.3	110.2	110.2	110.2	107.9	105.6
5°	123.8	124.9	123.8	123.8	121.5	121.5	119.3	119.3	115.9	109.0	103.4
7.5°	162.4	161.3	160.2	155.6	152.2	144.2	140.8	135.2	124.9	109.0	101.1
10°	263.5	256.7	252.2	241.9	220.3	206.7	188.5	170.4	142.0	109.0	97.7
12.5°	457.7	456.6	443.0	408.9	378.2	336.2	291.9	247.6	174.9	106.8	93.1
15°	715.6	705.3	686.0	646.3	591.8	525.9	446.4	368.0	228.3	103.4	86.3
17.5°	935.9	923.4	908.7	868.9	806.4	723.5	628.1	520.2	301.0	98.8	79.5
20°	1100.6	1092.7	1080.2	1048.4	989.3	914.3	807.6	676.9	389.6	93.1	72.7
22.5°	1160.8	1159.7	1161.9	1150.6	1121.1	1062.0	959.8	823.5	477.0	86.3	65.9
25°	1141.5	1140.4	1155.1	1169.9	1176.7	1152.9	1074.5	941.6	552.0	80.6	60.2
27.5°	1159.7	1156.3	1149.4	1151.7	1171.0	1184.7	1148.3	1032.5	616.7	72.7	54.5
30°	1353.9	1334.6	1303.9	1251.7	1213.1	1209.6	1193.7	1104.0	662.2	64.7	50.0
32.5°	1657.2	1633.3	1577.6	1481.1	1389.1	1318.7	1268.7	1164.2	694.0	56.8	44.3
35°	1921.8	1904.8	1840.0	1744.6	1612.9	1481.1	1390.2	1252.8	708.7	50.0	40.9
37.5°	2101.3	2094.4	2030.8	1928.6	1794.6	1639.0	1518.6	1343.7	705.3	42.0	37.5
40°	2179.6	2159.2	2105.8	2019.5	1884.3	1744.6	1617.4	1401.6	681.5	34.1	34.1
42.5°	2226.2	2203.5	2145.6	2063.8	1930.9	1782.1	1628.8	1376.6	624.7	27.3	32.9
45°	2292.1	2268.2	2192.1	2104.7	1970.6	1798.0	1584.5	1288.0	539.5	20.4	30.7
47.5°	2331.8	2315.9	2259.1	2171.7	2009.3	1775.3	1482.2	1205.1	445.2	15.9	29.5
50°	2211.4	2195.5	2153.5	2093.3	1984.3	1699.2	1392.5	1071.1	338.5	12.5	28.4
52.5°	1903.6	1917.3	1925.2	1942.2	1862.7	1528.8	1258.5	964.3	228.3	10.2	26.1
55°	1289.2	1309.6	1332.3	1400.5	1493.6	1360.7	1117.6	833.7	121.5	10.2	25.0
57.5°	1013.1	1006.3	999.5	995.0	1067.7	1122.2	982.5	666.7	52.2	10.2	22.7
60°	926.8	906.4	892.8	896.2	932.5	910.9	778.0	435.0	18.2	10.2	21.6
62.5°	607.7	623.6	654.2	706.5	681.5	584.9	452.1	172.6	9.1	10.2	19.3
65°	236.2	228.3	236.2	251.0	216.9	161.3	101.1	30.7	8.0	9.1	17.0
67.5°	31.8	28.4	21.6	13.6	12.5	11.4	9.1	8.0	8.0	9.1	15.9
70°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	6.8	6.8	8.0	13.6
72.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	8.0	11.4
75°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.8	10.2
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.7	8.0
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5	6.8
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.4	3.4	4.5	5.7
85°	1.1	2.3	1.1	2.3	2.3	2.3	2.3	2.3	2.3	3.4	4.5
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.3	3.4	3.4
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):**

	112.5°	135°	157.5°	180°
0°	104.5	104.5	104.5	104.5
2.5°	103.4	101.1	101.1	101.1
5°	101.1	98.8	98.8	97.7
7.5°	97.7	96.5	96.5	96.5
10°	95.4	94.3	95.4	95.4
12.5°	90.9	92.0	93.1	93.1
15°	86.3	88.6	90.9	92.0
17.5°	81.8	86.3	88.6	89.7
20°	77.2	82.9	86.3	87.5
22.5°	73.8	79.5	84.1	86.3
25°	69.3	77.2	82.9	85.2
27.5°	64.7	73.8	80.6	84.1
30°	61.3	72.7	80.6	84.1
32.5°	57.9	70.4	79.5	82.9
35°	55.7	69.3	79.5	84.1
37.5°	53.4	68.1	79.5	82.9
40°	52.2	67.0	79.5	82.9
42.5°	51.1	67.0	79.5	84.1
45°	48.8	65.9	79.5	84.1
47.5°	47.7	65.9	79.5	84.1
50°	46.6	64.7	79.5	85.2
52.5°	45.4	63.6	79.5	85.2
55°	43.2	62.5	78.4	84.1
57.5°	42.0	61.3	77.2	81.8
60°	39.8	59.1	75.0	80.6
62.5°	37.5	56.8	72.7	77.2
65°	34.1	53.4	69.3	75.0
67.5°	30.7	48.8	65.9	71.6
70°	27.3	44.3	61.3	65.9
72.5°	23.9	39.8	56.8	60.2
75°	20.4	34.1	50.0	54.5
77.5°	17.0	29.5	42.0	45.4
80°	12.5	22.7	34.1	37.5
82.5°	10.2	17.0	25.0	27.3
85°	6.8	11.4	15.9	18.2
87.5°	3.4	5.7	8.0	9.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)