

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: P1323951

Luminaire Tested: LDSQA3D13R509030D2WDE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

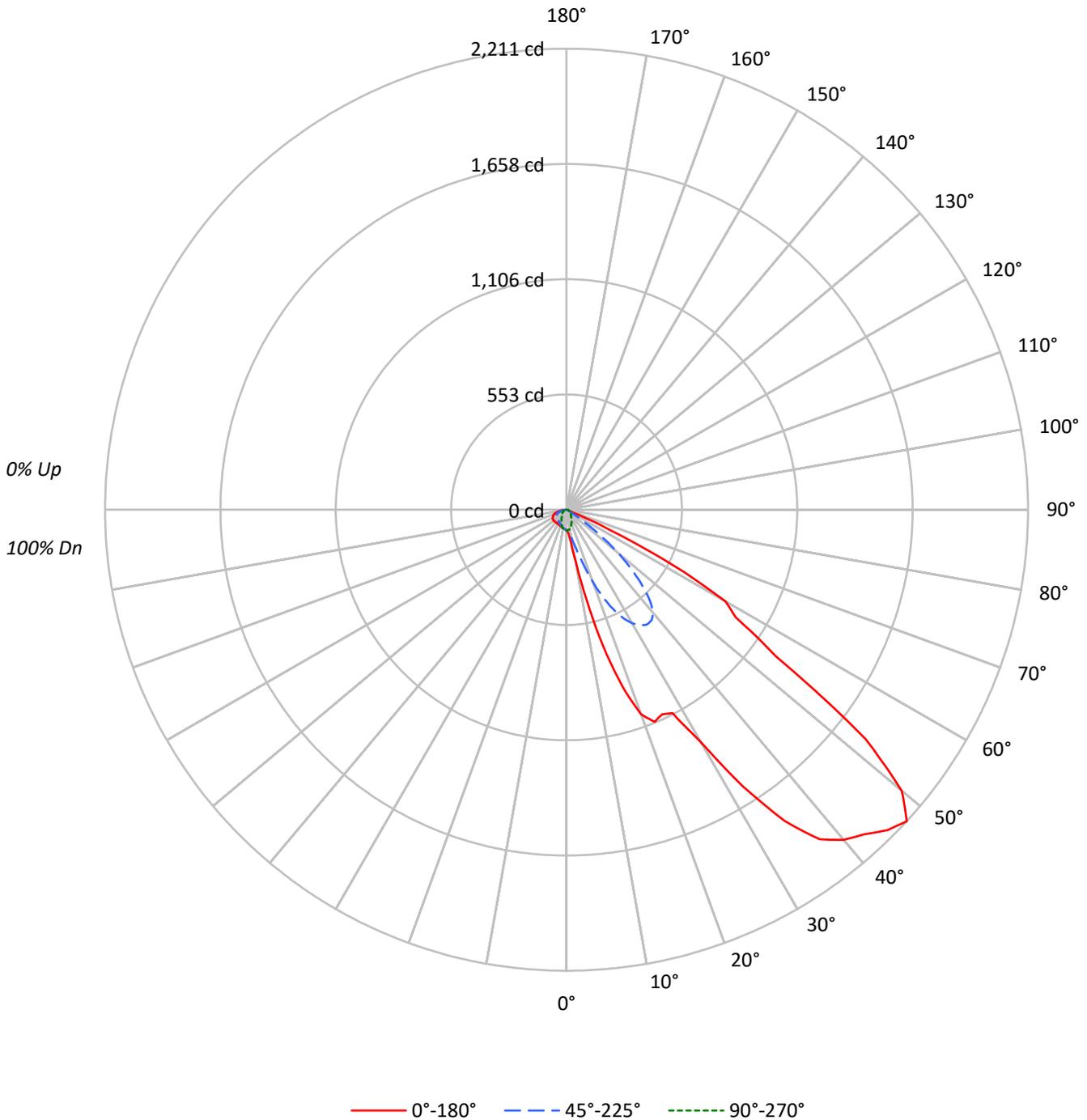
Test Method: LM-79-2019  
Report Number: P1323951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R509030D2WDE010 3LSQCA45R 1MB  
Description: 3in Adjustable Dim to Warm LED luminaire with, R50 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1247.0 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): 20.1  
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	0
RW	70	50	30	10	70	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	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20

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

	0°	45°	90°	135°	180°
0°	17067	17067	17067	17067	17067
5°	20296	19000	16942	16199	16009
10°	43702	23539	16194	15634	15827
15°	120993	38602	14603	14977	15548
20°	191285	67702	12628	14405	15194
25°	205704	99479	10851	13910	15354
30°	255324	124868	9426	13702	15850
35°	383151	141306	8158	13813	16757
40°	464682	145279	7262	14276	17671
45°	529401	124605	7088	15222	19412
50°	561878	86006	7207	16451	21649
55°	367069	34590	7116	17775	23931
60°	302733	5924	7061	19289	26350
65°	91283	3056	6602	20620	28974
70°	3777	3273	6496	21149	31472
75°	3593	3593	6455	21493	34402
80°	3174	3174	6447	21323	35209
85°	2174	4347	8497	21341	33988

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 563708 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10.3	0.8
10°-20°	59.0	4.7
20°-30°	151.8	12.2
30°-40°	272.7	21.9
40°-50°	364.2	29.2
50°-60°	277.4	22.2
60°-70°	84.2	6.8
70°-80°	20.1	1.6
80°-90°	7.3	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°	221.2	17.7
0°-40°	493.8	39.6
0°-60°	1135.4	91.1
0°-90°	1247.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1247.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	99	99	99	99	99	
5°	117	110	98	94	93	15
15°	679	216	82	84	87	200
25°	1082	524	57	73	81	516
35°	1822	672	39	66	80	1119
45°	2174	512	29	62	80	1662
55°	1222	115	24	59	80	1216
65°	224	8	16	51	71	310
75°	5	5	10	32	52	6
85°	1	2	4	11	17	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°	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
2.5°	105.6	105.6	105.6	105.6	105.6	105.6	104.5	104.5	104.5	102.3	100.2
5°	117.4	118.5	117.4	117.4	115.2	115.2	113.1	113.1	109.9	103.4	98.0
7.5°	154.0	152.9	151.9	147.6	144.3	136.8	133.6	128.2	118.5	103.4	95.9
10°	249.9	243.4	239.1	229.4	209.0	196.0	178.8	161.6	134.6	103.4	92.6
12.5°	434.1	433.0	420.1	387.7	358.7	318.8	276.8	234.8	165.9	101.2	88.3
15°	678.6	668.9	650.6	612.9	561.2	498.7	423.3	349.0	216.5	98.0	81.9
17.5°	887.5	875.7	861.7	824.0	764.7	686.1	595.6	493.3	285.4	93.7	75.4
20°	1043.7	1036.2	1024.3	994.1	938.1	867.1	765.8	641.9	369.4	88.3	68.9
22.5°	1100.8	1099.7	1101.9	1091.1	1063.1	1007.1	910.1	780.9	452.4	81.9	62.5
25°	1082.5	1081.4	1095.4	1109.4	1115.9	1093.2	1018.9	892.9	523.5	76.5	57.1
27.5°	1099.7	1096.5	1090.0	1092.2	1110.5	1123.4	1088.9	979.1	584.9	68.9	51.7
30°	1283.9	1265.6	1236.5	1186.9	1150.3	1147.1	1132.0	1046.9	627.9	61.4	47.4
32.5°	1571.5	1548.8	1496.1	1404.5	1317.3	1250.5	1203.1	1104.0	658.1	53.9	42.0
35°	1822.4	1806.3	1744.9	1654.4	1529.5	1404.5	1318.3	1188.0	672.1	47.4	38.8
37.5°	1992.6	1986.1	1925.8	1828.9	1701.8	1554.2	1440.1	1274.2	668.9	39.9	35.5
40°	2066.9	2047.5	1996.9	1915.1	1786.9	1654.4	1533.8	1329.1	646.2	32.3	32.3
42.5°	2111.1	2089.5	2034.6	1957.1	1831.0	1689.9	1544.5	1305.4	592.4	25.8	31.2
45°	2173.6	2150.9	2078.8	1995.8	1868.7	1705.0	1502.5	1221.4	511.6	19.4	29.1
47.5°	2211.3	2196.2	2142.3	2059.4	1905.4	1683.5	1405.6	1142.8	422.2	15.1	28.0
50°	2097.1	2082.0	2042.1	1985.1	1881.7	1611.3	1320.5	1015.7	321.0	11.8	26.9
52.5°	1805.2	1818.1	1825.7	1841.8	1766.4	1449.8	1193.4	914.4	216.5	9.7	24.8
55°	1222.5	1241.9	1263.4	1328.0	1416.4	1290.3	1059.8	790.6	115.2	9.7	23.7
57.5°	960.8	954.3	947.8	943.5	1012.5	1064.2	931.7	632.2	49.5	9.7	21.5
60°	878.9	859.5	846.6	849.8	884.3	863.8	737.8	412.5	17.2	9.7	20.5
62.5°	576.2	591.3	620.4	669.9	646.2	554.7	428.7	163.7	8.6	9.7	18.3
65°	224.0	216.5	224.0	238.0	205.7	152.9	95.9	29.1	7.5	8.6	16.2
67.5°	30.2	26.9	20.5	12.9	11.8	10.8	8.6	7.5	7.5	8.6	15.1
70°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.5	6.5	7.5	12.9
72.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.5	10.8
75°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.5	9.7
77.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.4	7.5
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	6.5
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	3.2	3.2	4.3	5.4
85°	1.1	2.2	1.1	2.2	2.2	2.2	2.2	2.2	2.2	3.2	4.3
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	3.2	3.2
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°	99.1	99.1	99.1	99.1
2.5°	98.0	95.9	95.9	95.9
5°	95.9	93.7	93.7	92.6
7.5°	92.6	91.6	91.6	91.6
10°	90.5	89.4	90.5	90.5
12.5°	86.2	87.2	88.3	88.3
15°	81.9	84.0	86.2	87.2
17.5°	77.5	81.9	84.0	85.1
20°	73.2	78.6	81.9	82.9
22.5°	70.0	75.4	79.7	81.9
25°	65.7	73.2	78.6	80.8
27.5°	61.4	70.0	76.5	79.7
30°	58.2	68.9	76.5	79.7
32.5°	54.9	66.8	75.4	78.6
35°	52.8	65.7	75.4	79.7
37.5°	50.6	64.6	75.4	78.6
40°	49.5	63.5	75.4	78.6
42.5°	48.5	63.5	75.4	79.7
45°	46.3	62.5	75.4	79.7
47.5°	45.2	62.5	75.4	79.7
50°	44.2	61.4	75.4	80.8
52.5°	43.1	60.3	75.4	80.8
55°	40.9	59.2	74.3	79.7
57.5°	39.9	58.2	73.2	77.5
60°	37.7	56.0	71.1	76.5
62.5°	35.5	53.9	68.9	73.2
65°	32.3	50.6	65.7	71.1
67.5°	29.1	46.3	62.5	67.9
70°	25.8	42.0	58.2	62.5
72.5°	22.6	37.7	53.9	57.1
75°	19.4	32.3	47.4	51.7
77.5°	16.2	28.0	39.9	43.1
80°	11.8	21.5	32.3	35.5
82.5°	9.7	16.2	23.7	25.8
85°	6.5	10.8	15.1	17.2
87.5°	3.2	5.4	7.5	8.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)