

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: P1312788

Luminaire Tested: LDSQA3D17R659050DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

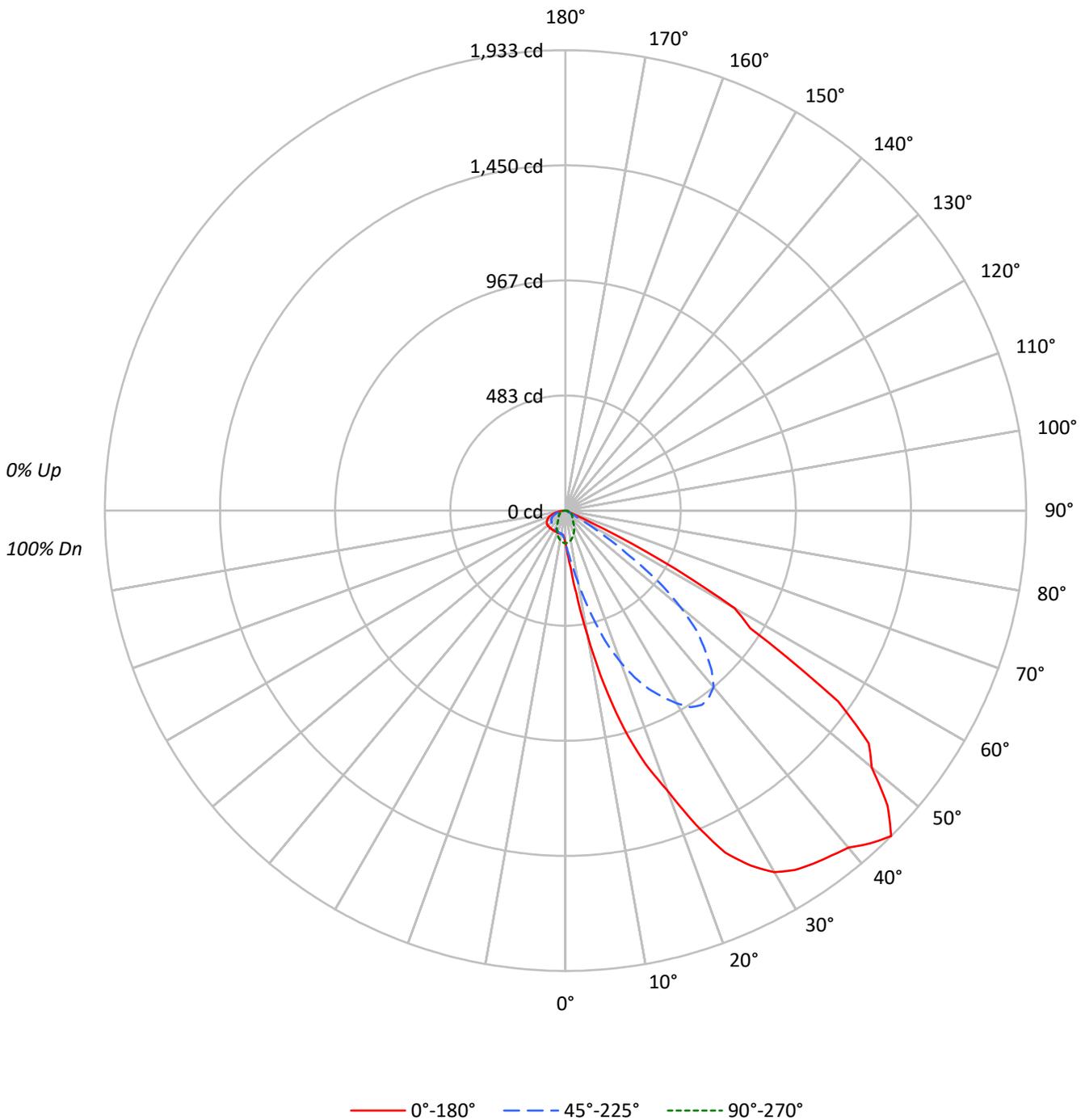
Test Method: LM-79-2019  
Report Number: P1312788  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R659050DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R65 optic, 5000K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1402.0 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
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	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	89	89	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	55	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	36	36	36	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	28	28	28	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23

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

	0°	45°	90°	135°	180°
0°	23491	23491	23491	23491	23491
5°	41076	33539	23080	18706	17980
10°	92931	54090	22122	17208	17453
15°	168937	86974	20558	17295	17794
20°	229039	124187	18547	17265	18034
25°	301059	156810	16285	16836	18433
30°	348611	185900	13980	16764	19290
35°	380670	209551	11816	17135	20394
40°	415266	217424	10432	18008	21808
45°	470776	201667	9937	19168	23625
50°	449695	168368	9779	20336	25989
55°	419134	94552	10119	21949	28705
60°	282273	20322	10161	23250	31000
65°	43522	5175	9740	24043	33783
70°	4935	4935	9215	24774	36104
75°	4658	4658	8451	24288	36465
80°	4166	5554	8331	22315	36200
85°	2766	5533	8299	22132	33395

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 470776 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.5	1.2
10°-20°	89.1	6.4
20°-30°	209.5	14.9
30°-40°	316.4	22.6
40°-50°	363.7	25.9
50°-60°	288.8	20.6
60°-70°	86.5	6.2
70°-80°	23.5	1.7
80°-90°	7.9	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°	315.1	22.5
0°-40°	631.6	45.0
0°-60°	1284.1	91.6
0°-90°	1402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1402.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	136	136	136	136	136	
5°	238	194	134	108	104	32
15°	948	488	115	97	100	273
25°	1584	825	86	89	97	723
35°	1811	997	56	82	97	1136
45°	1933	828	41	79	97	1436
55°	1396	315	34	73	96	1150
65°	107	13	24	59	83	240
75°	7	7	13	36	55	7
85°	1	3	4	11	17	2
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°	136.4	136.4	136.4	136.4	136.4	136.4	136.4	136.4	136.4	136.4	136.4
2.5°	172.9	174.3	172.9	172.9	171.5	170.1	160.3	149.0	136.4	126.5	119.5
5°	237.6	239.0	234.8	234.8	231.9	227.7	194.0	161.7	133.5	118.1	108.2
7.5°	351.4	357.1	350.0	341.6	326.1	323.3	241.8	174.3	130.7	109.6	101.2
10°	531.4	527.2	520.1	503.3	476.5	463.9	309.3	187.0	126.5	104.0	98.4
12.5°	749.3	738.0	729.6	698.7	662.1	641.0	393.6	198.2	120.9	98.4	97.0
15°	947.5	939.0	919.4	889.8	844.8	828.0	487.8	205.2	115.3	94.2	97.0
17.5°	1114.7	1106.3	1095.1	1065.5	1019.2	993.9	593.2	209.5	108.2	91.4	95.6
20°	1249.7	1244.1	1228.6	1204.7	1158.3	1134.4	677.6	209.5	101.2	88.6	94.2
22.5°	1424.0	1411.4	1391.7	1356.5	1298.9	1262.4	757.7	205.2	94.2	85.7	91.4
25°	1584.3	1575.8	1550.5	1508.4	1446.5	1410.0	825.2	196.8	85.7	81.5	88.6
27.5°	1679.9	1674.2	1650.3	1606.8	1537.9	1509.8	881.4	184.2	77.3	77.3	87.2
30°	1753.0	1741.7	1717.8	1675.6	1605.4	1571.6	934.8	168.7	70.3	73.1	84.3
32.5°	1789.5	1785.3	1764.2	1727.7	1658.8	1620.8	978.4	149.0	61.9	70.3	82.9
35°	1810.6	1806.4	1789.5	1754.4	1689.7	1653.1	996.7	130.7	56.2	67.5	81.5
37.5°	1827.5	1823.2	1802.2	1767.0	1702.3	1664.4	988.2	111.1	50.6	64.7	80.1
40°	1847.1	1831.7	1799.3	1764.2	1705.2	1668.6	967.1	92.8	46.4	63.3	80.1
42.5°	1894.9	1841.5	1790.9	1758.6	1702.3	1660.2	906.7	73.1	42.2	60.4	78.7
45°	1932.9	1838.7	1774.0	1748.7	1691.1	1643.3	828.0	53.4	40.8	59.0	78.7
47.5°	1833.1	1775.4	1745.9	1731.9	1670.0	1618.0	746.4	36.5	39.4	57.6	77.3
50°	1678.4	1671.4	1660.2	1661.6	1605.4	1563.2	628.4	25.3	36.5	56.2	75.9
52.5°	1603.9	1595.5	1575.8	1561.8	1505.5	1469.0	497.6	19.7	35.1	54.8	74.5
55°	1395.9	1401.5	1380.4	1388.9	1372.0	1353.7	314.9	18.3	33.7	52.0	73.1
57.5°	919.4	947.5	996.7	1055.7	1109.1	1145.7	170.1	18.3	30.9	50.6	70.3
60°	819.5	812.5	811.1	822.4	846.3	865.9	59.0	16.9	29.5	46.4	67.5
62.5°	448.4	445.6	487.8	559.5	601.7	605.9	16.9	16.9	26.7	43.6	63.3
65°	106.8	111.1	123.7	154.6	182.7	201.0	12.7	15.5	23.9	40.8	59.0
67.5°	16.9	18.3	18.3	22.5	25.3	25.3	11.2	14.1	21.1	36.5	54.8
70°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	12.7	18.3	32.3	49.2
72.5°	8.4	8.4	8.4	8.4	8.4	8.4	9.8	11.2	15.5	28.1	42.2
75°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	9.8	12.7	22.5	36.5
77.5°	5.6	5.6	5.6	5.6	5.6	5.6	7.0	8.4	11.2	18.3	29.5
80°	4.2	4.2	4.2	4.2	4.2	4.2	5.6	7.0	8.4	14.1	22.5
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	4.2	5.6	7.0	11.2	16.9
85°	1.4	1.4	1.4	1.4	2.8	2.8	2.8	4.2	4.2	7.0	11.2
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	4.2	5.6
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°	136.4	136.4
2.5°	115.3	113.9
5°	104.0	104.0
7.5°	99.8	99.8
10°	98.4	99.8
12.5°	98.4	99.8
15°	98.4	99.8
17.5°	98.4	99.8
20°	97.0	98.4
22.5°	95.6	97.0
25°	94.2	97.0
27.5°	92.8	97.0
30°	92.8	97.0
32.5°	92.8	97.0
35°	91.4	97.0
37.5°	91.4	97.0
40°	91.4	97.0
42.5°	91.4	97.0
45°	91.4	97.0
47.5°	91.4	97.0
50°	91.4	97.0
52.5°	90.0	97.0
55°	90.0	95.6
57.5°	87.2	92.8
60°	84.3	90.0
62.5°	81.5	87.2
65°	77.3	82.9
67.5°	73.1	77.3
70°	66.1	71.7
72.5°	59.0	63.3
75°	50.6	54.8
77.5°	42.2	46.4
80°	33.7	36.5
82.5°	23.9	26.7
85°	15.5	16.9
87.5°	7.0	7.0
90°	0.0	0.0

(END OF REPORT)