

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: P1320466

Luminaire Tested: LDSQA3D20R609840D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R609840D010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

Summary

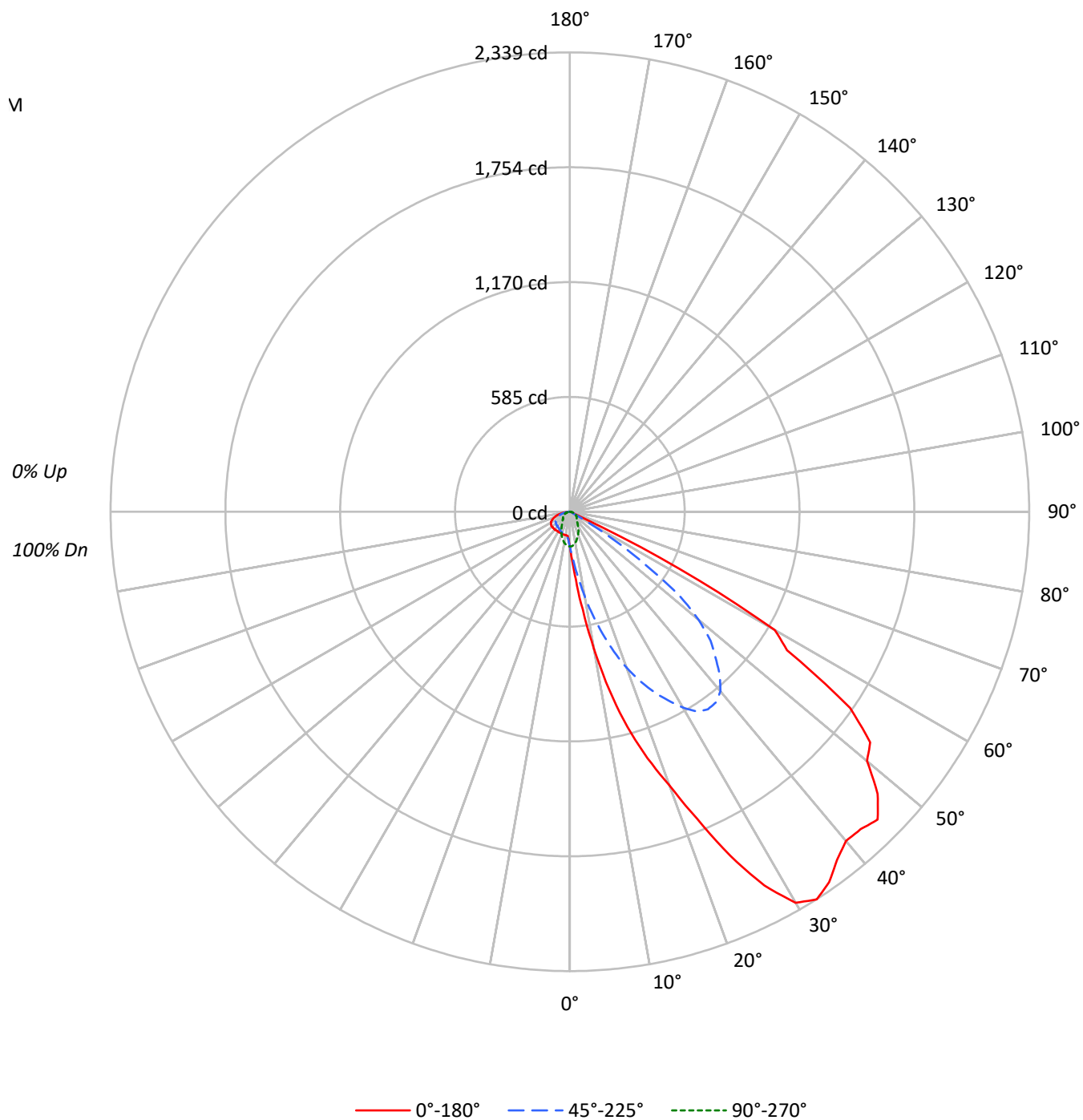
Lumens per Lamp: N/A
Luminaire Lumens: 1781.0 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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

TEST NUMBER: P1320466

CATALOG NUMBER: LDSQA3D20R609840D010 3LSQCA45R 1MMS

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	30397	30397	30397	30397	30397
5°	59903	46747	29943	22665	21558
10°	123727	76160	28033	20671	20951
15°	202350	114307	25104	20790	21360
20°	271486	154886	22543	20765	21663
25°	367322	192269	19687	20618	22461
30°	457172	228914	16426	20602	23506
35°	484026	258013	13960	21109	24515
40°	491728	268256	12747	21830	26574
45°	539801	255518	12227	23260	28789
50°	529190	229027	12137	24730	31669
55°	523055	140492	12161	26723	35010
60°	414884	33446	12813	28451	37923
65°	26407	5950	12551	29015	40914
70°	5690	6546	12236	30162	43204
75°	5390	6455	10780	29079	44184
80°	4860	6447	11207	28861	41754
85°	3162	6323	12844	25688	41497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 569774 cd/sqm

TEST NUMBER: P1320466

CATALOG NUMBER: LDSQA3D20R609840D010 3LSQCA45R 1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.0	1.2
10°-20°	111.0	6.2
20°-30°	257.5	14.5
30°-40°	400.3	22.5
40°-50°	456.2	25.6
50°-60°	384.2	21.6
60°-70°	111.5	6.3
70°-80°	28.6	1.6
80°-90°	9.7	0.5
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°	390.6	21.9
0°-40°	790.9	44.4
0°-60°	1631.3	91.6
0°-90°	1781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1781.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	176	176	176	176	176	
5°	346	270	173	131	125	44
15°	1135	641	141	117	120	328
25°	1933	1012	104	108	118	898
35°	2302	1227	66	100	117	1430
45°	2216	1049	50	96	118	1666
55°	1742	468	40	89	117	1466
65°	65	15	31	71	100	320
75°	8	10	16	44	66	9
85°	2	3	6	13	21	2
90°	0	0	0	0	0	

TEST NUMBER: P1320466

CATALOG NUMBER: LDSQA3D20R609840D010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	176.5	176.5	176.5	176.5	176.5	176.5	176.5	176.5	176.5	176.5	176.5
2.5°	238.0	236.4	236.4	234.7	233.1	231.5	226.7	225.0	215.3	195.9	176.5
5°	346.5	344.8	340.0	338.4	330.3	318.9	307.6	296.3	270.4	215.3	173.2
7.5°	501.9	505.1	501.9	484.1	472.7	454.9	420.9	396.6	344.8	234.7	166.8
10°	707.5	707.5	702.6	675.1	650.8	616.8	573.1	531.0	435.5	252.6	160.3
12.5°	930.9	935.8	911.5	888.8	845.1	803.0	743.1	680.0	539.1	267.1	152.2
15°	1134.9	1131.6	1107.4	1078.2	1032.9	974.6	911.5	830.5	641.1	276.8	140.8
17.5°	1316.2	1309.7	1288.7	1256.3	1201.3	1136.5	1055.6	968.1	746.3	284.9	132.8
20°	1481.3	1458.7	1434.4	1400.4	1347.0	1279.0	1194.8	1096.0	845.1	284.9	123.0
22.5°	1690.2	1667.5	1633.5	1581.7	1510.5	1426.3	1327.5	1215.8	932.5	278.5	113.3
25°	1933.0	1915.2	1856.9	1790.6	1698.3	1597.9	1483.0	1332.4	1011.8	268.7	103.6
27.5°	2145.1	2125.7	2067.4	1970.3	1858.6	1738.8	1617.3	1463.5	1081.5	250.9	92.3
30°	2298.9	2274.6	2229.3	2137.0	2001.0	1855.3	1711.2	1563.9	1151.1	229.9	82.6
32.5°	2339.4	2336.1	2302.2	2234.2	2112.7	1952.5	1780.8	1620.6	1206.1	202.4	74.5
35°	2302.2	2307.0	2300.5	2266.5	2177.5	2020.5	1826.2	1651.3	1227.2	174.8	66.4
37.5°	2234.2	2240.6	2252.0	2256.8	2200.2	2060.9	1852.1	1664.3	1222.3	147.3	61.5
40°	2187.2	2184.0	2184.0	2216.3	2205.0	2078.7	1855.3	1654.6	1193.2	118.2	56.7
42.5°	2192.1	2156.4	2132.2	2184.0	2200.2	2070.6	1834.3	1628.7	1130.0	90.7	51.8
45°	2216.3	2140.3	2098.2	2164.5	2190.4	2043.1	1795.4	1589.8	1049.1	63.1	50.2
47.5°	2125.7	2075.5	2069.0	2162.9	2172.6	1996.2	1735.5	1528.3	971.4	43.7	46.9
50°	1975.1	1967.0	2001.0	2098.2	2099.8	1918.5	1667.5	1416.6	854.8	30.8	45.3
52.5°	1928.2	1933.0	1963.8	2014.0	1967.0	1787.3	1544.5	1322.7	707.5	24.3	43.7
55°	1742.0	1750.1	1779.2	1810.0	1776.0	1627.0	1395.5	1209.4	467.9	22.7	40.5
57.5°	1311.4	1332.4	1385.8	1413.3	1416.6	1325.9	1264.4	1042.6	263.9	22.7	38.9
60°	1204.5	1177.0	1152.7	1096.0	1044.2	1032.9	1039.4	782.0	97.1	21.0	37.2
62.5°	629.8	616.8	654.1	678.3	684.8	720.4	673.5	412.8	21.0	21.0	34.0
65°	64.8	64.8	79.3	105.2	174.8	233.1	221.8	119.8	14.6	19.4	30.8
67.5°	19.4	19.4	19.4	22.7	29.1	29.1	24.3	17.8	14.6	17.8	27.5
70°	11.3	11.3	11.3	11.3	11.3	11.3	13.0	11.3	13.0	16.2	24.3
72.5°	9.7	9.7	9.7	9.7	11.3	11.3	11.3	11.3	11.3	14.6	21.0
75°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	9.7	9.7	11.3	16.2
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	8.1	8.1	8.1	9.7	13.0
80°	4.9	4.9	4.9	4.9	4.9	6.5	6.5	6.5	6.5	8.1	11.3
82.5°	3.2	3.2	3.2	3.2	4.9	4.9	4.9	4.9	4.9	6.5	8.1
85°	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9	6.5
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	4.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1320466

CATALOG NUMBER: LDSQA3D20R609840D010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	176.5	176.5	176.5	176.5
2.5°	160.3	148.9	142.5	139.2
5°	145.7	131.1	126.3	124.7
7.5°	132.8	123.0	121.4	121.4
10°	124.7	118.2	119.8	119.8
12.5°	119.8	118.2	119.8	121.4
15°	114.9	116.6	119.8	119.8
17.5°	111.7	114.9	118.2	119.8
20°	106.9	113.3	118.2	118.2
22.5°	103.6	111.7	116.6	118.2
25°	100.4	108.5	114.9	118.2
27.5°	95.5	106.9	114.9	116.6
30°	90.7	103.6	113.3	118.2
32.5°	85.8	102.0	113.3	116.6
35°	82.6	100.4	113.3	116.6
37.5°	79.3	98.8	113.3	118.2
40°	77.7	97.1	111.7	118.2
42.5°	74.5	97.1	111.7	118.2
45°	72.9	95.5	111.7	118.2
47.5°	71.2	93.9	111.7	118.2
50°	68.0	92.3	110.1	118.2
52.5°	66.4	90.7	110.1	118.2
55°	63.1	89.0	108.5	116.6
57.5°	61.5	85.8	106.9	113.3
60°	58.3	82.6	103.6	110.1
62.5°	53.4	77.7	98.8	106.9
65°	48.6	71.2	93.9	100.4
67.5°	43.7	66.4	87.4	93.9
70°	38.9	59.9	79.3	85.8
72.5°	34.0	51.8	71.2	76.1
75°	29.1	43.7	59.9	66.4
77.5°	22.7	35.6	50.2	55.0
80°	17.8	29.1	38.9	42.1
82.5°	14.6	21.0	29.1	30.8
85°	9.7	13.0	17.8	21.0
87.5°	4.9	6.5	8.1	9.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)