

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: P1320320

Luminaire Tested: LDSQA3D17R609840DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320320
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: LDSQA3D17R609840DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

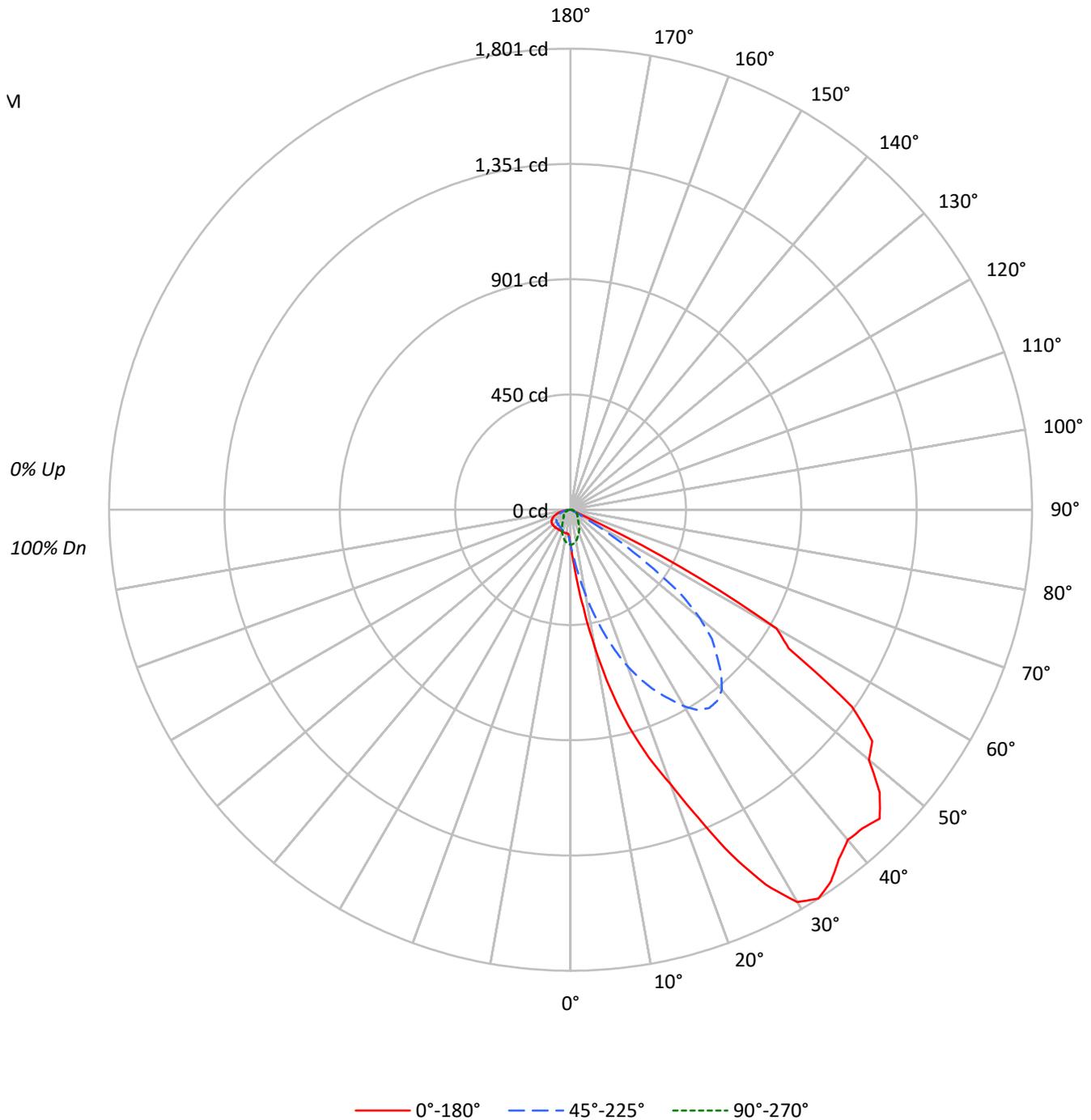
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1371.0 lumens
Efficiency: N/A
Efficacy: 67.2 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): 20.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P1320320
CATALOG NUMBER: LDSQA3D17R609840DE010 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			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	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	31	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	27	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23388	23388	23388	23388	23388
5°	46107	35976	23045	17444	16597
10°	95239	58620	21580	15914	16124
15°	155761	87990	19328	15993	16439
20°	208989	119221	17356	15982	16678
25°	282760	148012	15164	15867	17292
30°	351932	176215	12648	15869	18097
35°	372596	198618	10744	16252	18859
40°	378531	206498	9802	16817	20459
45°	415537	196699	9401	17902	22164
50°	407362	176299	9351	19023	24382
55°	402650	108154	9368	20568	26933
60°	319370	25765	9886	21907	29175
65°	20335	4564	9658	22332	31501
70°	4381	5035	9416	23213	33284
75°	4126	4991	8318	22358	34003
80°	3670	4959	8629	22216	32134
85°	2371	4940	9880	19760	32012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 438590 cd/sqm



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CATALOG NUMBER: LDSQA3D17R609840DE010 3LSQCA45R 1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.0	1.2
10°-20°	85.5	6.2
20°-30°	198.3	14.5
30°-40°	308.2	22.5
40°-50°	351.2	25.6
50°-60°	295.8	21.6
60°-70°	85.8	6.3
70°-80°	22.0	1.6
80°-90°	7.4	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°	300.7	21.9
0°-40°	608.9	44.4
0°-60°	1255.8	91.6
0°-90°	1371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1371.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	136	136	136	136	136	
5°	267	208	133	101	96	34
15°	874	494	108	90	92	253
25°	1488	779	80	84	91	691
35°	1772	945	51	77	90	1101
45°	1706	808	39	74	91	1283
55°	1341	360	31	68	90	1128
65°	50	11	24	55	77	247
75°	6	8	12	34	51	7
85°	1	2	5	10	16	2
90°	0	0	0	0	0	



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 CATALOG NUMBER: LDSQA3D17R609840DE010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8
2.5°	183.2	182.0	182.0	180.7	179.5	178.2	174.5	173.2	165.8	150.8	135.8
5°	266.7	265.5	261.7	260.5	254.2	245.5	236.8	228.1	208.1	165.8	133.3
7.5°	386.3	388.8	386.3	372.6	363.9	350.2	324.0	305.3	265.5	180.7	128.4
10°	544.6	544.6	540.9	519.7	501.0	474.8	441.2	408.8	335.2	194.4	123.4
12.5°	716.6	720.3	701.6	684.2	650.5	618.1	572.0	523.4	415.0	205.6	117.1
15°	873.6	871.1	852.4	830.0	795.1	750.2	701.6	639.3	493.5	213.1	108.4
17.5°	1013.2	1008.2	992.0	967.1	924.7	874.9	812.6	745.3	574.5	219.3	102.2
20°	1140.3	1122.9	1104.2	1078.0	1036.9	984.5	919.7	843.7	650.5	219.3	94.7
22.5°	1301.1	1283.6	1257.5	1217.6	1162.8	1098.0	1021.9	935.9	717.8	214.4	87.2
25°	1488.0	1474.3	1429.5	1378.4	1307.3	1230.1	1141.6	1025.7	778.9	206.9	79.8
27.5°	1651.3	1636.3	1591.5	1516.7	1430.7	1338.5	1245.0	1126.6	832.5	193.2	71.0
30°	1769.7	1751.0	1716.1	1645.1	1540.4	1428.2	1317.3	1203.9	886.1	177.0	63.6
32.5°	1800.8	1798.3	1772.2	1719.8	1626.4	1503.0	1370.9	1247.5	928.5	155.8	57.3
35°	1772.2	1775.9	1770.9	1744.8	1676.2	1555.3	1405.8	1271.2	944.7	134.6	51.1
37.5°	1719.8	1724.8	1733.5	1737.3	1693.7	1586.5	1425.7	1281.2	940.9	113.4	47.4
40°	1683.7	1681.2	1681.2	1706.1	1697.4	1600.2	1428.2	1273.7	918.5	91.0	43.6
42.5°	1687.4	1660.0	1641.3	1681.2	1693.7	1594.0	1412.0	1253.7	869.9	69.8	39.9
45°	1706.1	1647.6	1615.1	1666.2	1686.2	1572.8	1382.1	1223.8	807.6	48.6	38.6
47.5°	1636.3	1597.7	1592.7	1665.0	1672.5	1536.6	1336.0	1176.5	747.8	33.6	36.1
50°	1520.4	1514.2	1540.4	1615.1	1616.4	1476.8	1283.6	1090.5	658.0	23.7	34.9
52.5°	1484.3	1488.0	1511.7	1550.3	1514.2	1375.9	1188.9	1018.2	544.6	18.7	33.6
55°	1341.0	1347.2	1369.6	1393.3	1367.1	1252.5	1074.3	931.0	360.2	17.4	31.2
57.5°	1009.5	1025.7	1066.8	1088.0	1090.5	1020.7	973.3	802.6	203.1	17.4	29.9
60°	927.2	906.0	887.3	843.7	803.8	795.1	800.1	601.9	74.8	16.2	28.7
62.5°	484.8	474.8	503.5	522.2	527.2	554.6	518.4	317.8	16.2	16.2	26.2
65°	49.9	49.9	61.1	81.0	134.6	179.5	170.7	92.2	11.2	15.0	23.7
67.5°	15.0	15.0	15.0	17.4	22.4	22.4	18.7	13.7	11.2	13.7	21.2
70°	8.7	8.7	8.7	8.7	8.7	8.7	10.0	8.7	10.0	12.5	18.7
72.5°	7.5	7.5	7.5	7.5	8.7	8.7	8.7	8.7	8.7	11.2	16.2
75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.5	7.5	8.7	12.5
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	6.2	6.2	6.2	7.5	10.0
80°	3.7	3.7	3.7	3.7	3.7	5.0	5.0	5.0	5.0	6.2	8.7
82.5°	2.5	2.5	2.5	2.5	3.7	3.7	3.7	3.7	3.7	5.0	6.2
85°	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	5.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7
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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 CATALOG NUMBER: LDSQA3D17R609840DE010 3LSQCA45R 1MMS

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	135.8	135.8	135.8	135.8
2.5°	123.4	114.7	109.7	107.2
5°	112.2	100.9	97.2	96.0
7.5°	102.2	94.7	93.5	93.5
10°	96.0	91.0	92.2	92.2
12.5°	92.2	91.0	92.2	93.5
15°	88.5	89.7	92.2	92.2
17.5°	86.0	88.5	91.0	92.2
20°	82.3	87.2	91.0	91.0
22.5°	79.8	86.0	89.7	91.0
25°	77.3	83.5	88.5	91.0
27.5°	73.5	82.3	88.5	89.7
30°	69.8	79.8	87.2	91.0
32.5°	66.1	78.5	87.2	89.7
35°	63.6	77.3	87.2	89.7
37.5°	61.1	76.0	87.2	91.0
40°	59.8	74.8	86.0	91.0
42.5°	57.3	74.8	86.0	91.0
45°	56.1	73.5	86.0	91.0
47.5°	54.8	72.3	86.0	91.0
50°	52.3	71.0	84.7	91.0
52.5°	51.1	69.8	84.7	91.0
55°	48.6	68.5	83.5	89.7
57.5°	47.4	66.1	82.3	87.2
60°	44.9	63.6	79.8	84.7
62.5°	41.1	59.8	76.0	82.3
65°	37.4	54.8	72.3	77.3
67.5°	33.6	51.1	67.3	72.3
70°	29.9	46.1	61.1	66.1
72.5°	26.2	39.9	54.8	58.6
75°	22.4	33.6	46.1	51.1
77.5°	17.4	27.4	38.6	42.4
80°	13.7	22.4	29.9	32.4
82.5°	11.2	16.2	22.4	23.7
85°	7.5	10.0	13.7	16.2
87.5°	3.7	5.0	6.2	7.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)