

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: P1316805

Luminaire Tested: LDSQA3D17R609740DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316805
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: LDSQA3D17R609740DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R60 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

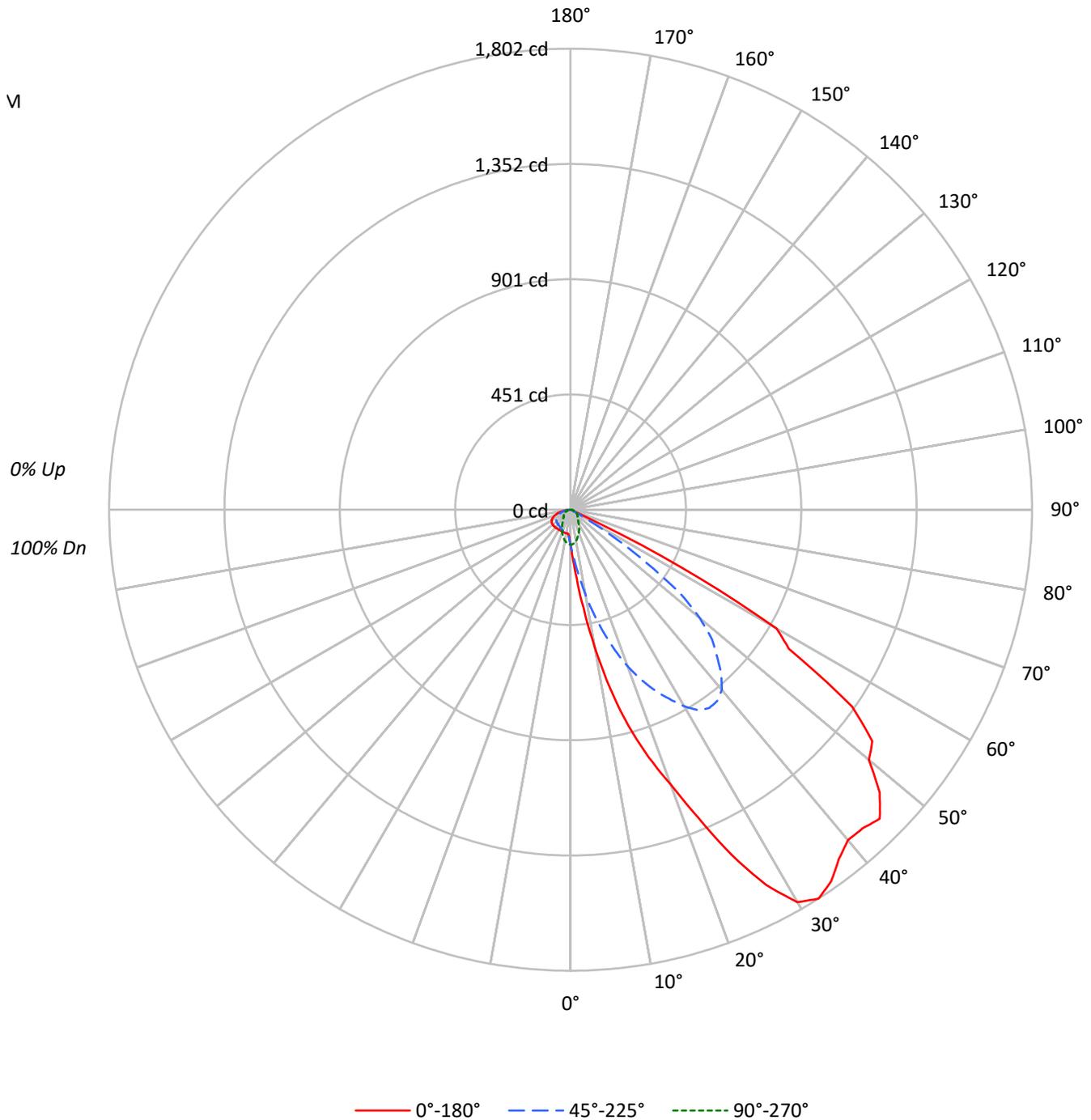
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1372.0 lumens
Efficiency: N/A
Efficacy: 64.7 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): 21.2
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

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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	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°	23405	23405	23405	23405	23405
5°	46142	36011	23062	17461	16597
10°	95309	58672	21598	15914	16141
15°	155886	88061	19345	16011	16457
20°	209154	119312	17375	16000	16678
25°	282969	148126	15164	15886	17292
30°	352191	176334	12648	15869	18097
35°	372870	198766	10744	16252	18880
40°	378800	206655	9825	16817	20459
45°	415854	196845	9426	17926	22164
50°	407657	176432	9351	19050	24382
55°	402950	108214	9368	20598	26963
60°	319611	25765	9886	21907	29209
65°	20335	4564	9658	22372	31501
70°	4381	5035	9416	23213	33284
75°	4126	4991	8318	22425	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: 438930 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.0	1.2
10°-20°	85.5	6.2
20°-30°	198.4	14.5
30°-40°	308.4	22.5
40°-50°	351.4	25.6
50°-60°	296.0	21.6
60°-70°	85.9	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°	300.9	21.9
0°-40°	609.3	44.4
0°-60°	1256.7	91.6
0°-90°	1372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1372.0	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°	1489	780	80	84	91	692
35°	1774	945	51	77	90	1102
45°	1707	808	39	74	91	1284
55°	1342	360	31	69	90	1129
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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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	135.9	135.9	135.9	135.9	135.9	135.9	135.9	135.9	135.9	135.9	135.9
2.5°	183.3	182.1	182.1	180.8	179.6	178.3	174.6	173.4	165.9	150.9	135.9
5°	266.9	265.6	261.9	260.7	254.4	245.7	237.0	228.2	208.3	165.9	133.4
7.5°	386.6	389.1	386.6	372.9	364.2	350.5	324.3	305.6	265.6	180.8	128.5
10°	545.0	545.0	541.3	520.1	501.4	475.2	441.5	409.1	335.5	194.6	123.5
12.5°	717.1	720.9	702.2	684.7	651.0	618.6	572.4	523.8	415.3	205.8	117.2
15°	874.3	871.8	853.1	830.6	795.7	750.8	702.2	639.8	493.9	213.3	108.5
17.5°	1013.9	1009.0	992.7	967.8	925.4	875.5	813.2	745.8	574.9	219.5	102.3
20°	1141.2	1123.7	1105.0	1078.8	1037.6	985.3	920.4	844.3	651.0	219.5	94.8
22.5°	1302.0	1284.6	1258.4	1218.5	1163.6	1098.8	1022.7	936.6	718.4	214.5	87.3
25°	1489.1	1475.4	1430.5	1379.4	1308.3	1231.0	1142.4	1026.4	779.5	207.0	79.8
27.5°	1652.5	1637.5	1592.6	1517.8	1431.7	1339.5	1245.9	1127.4	833.1	193.3	71.1
30°	1771.0	1752.3	1717.3	1646.3	1541.5	1429.3	1318.3	1204.8	886.7	177.1	63.6
32.5°	1802.2	1799.7	1773.5	1721.1	1627.6	1504.1	1371.9	1248.4	929.1	155.9	57.4
35°	1773.5	1777.2	1772.2	1746.0	1677.4	1556.5	1406.8	1272.1	945.4	134.7	51.1
37.5°	1721.1	1726.1	1734.8	1738.5	1694.9	1587.6	1426.8	1282.1	941.6	113.5	47.4
40°	1684.9	1682.4	1682.4	1707.4	1698.6	1601.4	1429.3	1274.6	919.2	91.0	43.7
42.5°	1688.7	1661.2	1642.5	1682.4	1694.9	1595.1	1413.0	1254.6	870.5	69.8	39.9
45°	1707.4	1648.8	1616.3	1667.5	1687.4	1573.9	1383.1	1224.7	808.2	48.6	38.7
47.5°	1637.5	1598.9	1593.9	1666.2	1673.7	1537.8	1337.0	1177.3	748.3	33.7	36.2
50°	1521.5	1515.3	1541.5	1616.3	1617.6	1477.9	1284.6	1091.3	658.5	23.7	34.9
52.5°	1485.4	1489.1	1512.8	1551.5	1515.3	1376.9	1189.8	1018.9	545.0	18.7	33.7
55°	1342.0	1348.2	1370.6	1394.3	1368.1	1253.4	1075.1	931.6	360.4	17.5	31.2
57.5°	1010.2	1026.4	1067.6	1088.8	1091.3	1021.4	974.0	803.2	203.3	17.5	29.9
60°	927.9	906.7	888.0	844.3	804.4	795.7	800.7	602.4	74.8	16.2	28.7
62.5°	485.1	475.2	503.9	522.6	527.6	555.0	518.8	318.0	16.2	16.2	26.2
65°	49.9	49.9	61.1	81.1	134.7	179.6	170.9	92.3	11.2	15.0	23.7
67.5°	15.0	15.0	15.0	17.5	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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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	135.9	135.9	135.9	135.9
2.5°	123.5	114.7	109.8	107.3
5°	112.2	101.0	97.3	96.0
7.5°	102.3	94.8	93.5	93.5
10°	96.0	91.0	92.3	92.3
12.5°	92.3	91.0	92.3	93.5
15°	88.5	89.8	92.3	92.3
17.5°	86.1	88.5	91.0	92.3
20°	82.3	87.3	91.0	91.0
22.5°	79.8	86.1	89.8	91.0
25°	77.3	83.6	88.5	91.0
27.5°	73.6	82.3	88.5	89.8
30°	69.8	79.8	87.3	91.0
32.5°	66.1	78.6	87.3	89.8
35°	63.6	77.3	87.3	89.8
37.5°	61.1	76.1	87.3	91.0
40°	59.9	74.8	86.1	91.0
42.5°	57.4	74.8	86.1	91.0
45°	56.1	73.6	86.1	91.0
47.5°	54.9	72.3	86.1	91.0
50°	52.4	71.1	84.8	91.0
52.5°	51.1	69.8	84.8	91.0
55°	48.6	68.6	83.6	89.8
57.5°	47.4	66.1	82.3	87.3
60°	44.9	63.6	79.8	84.8
62.5°	41.2	59.9	76.1	82.3
65°	37.4	54.9	72.3	77.3
67.5°	33.7	51.1	67.3	72.3
70°	29.9	46.1	61.1	66.1
72.5°	26.2	39.9	54.9	58.6
75°	22.4	33.7	46.1	51.1
77.5°	17.5	27.4	38.7	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)