

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: P1310588

Luminaire Tested: LDSQA3D17R609035DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310588
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: LDSQA3D17R609035DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

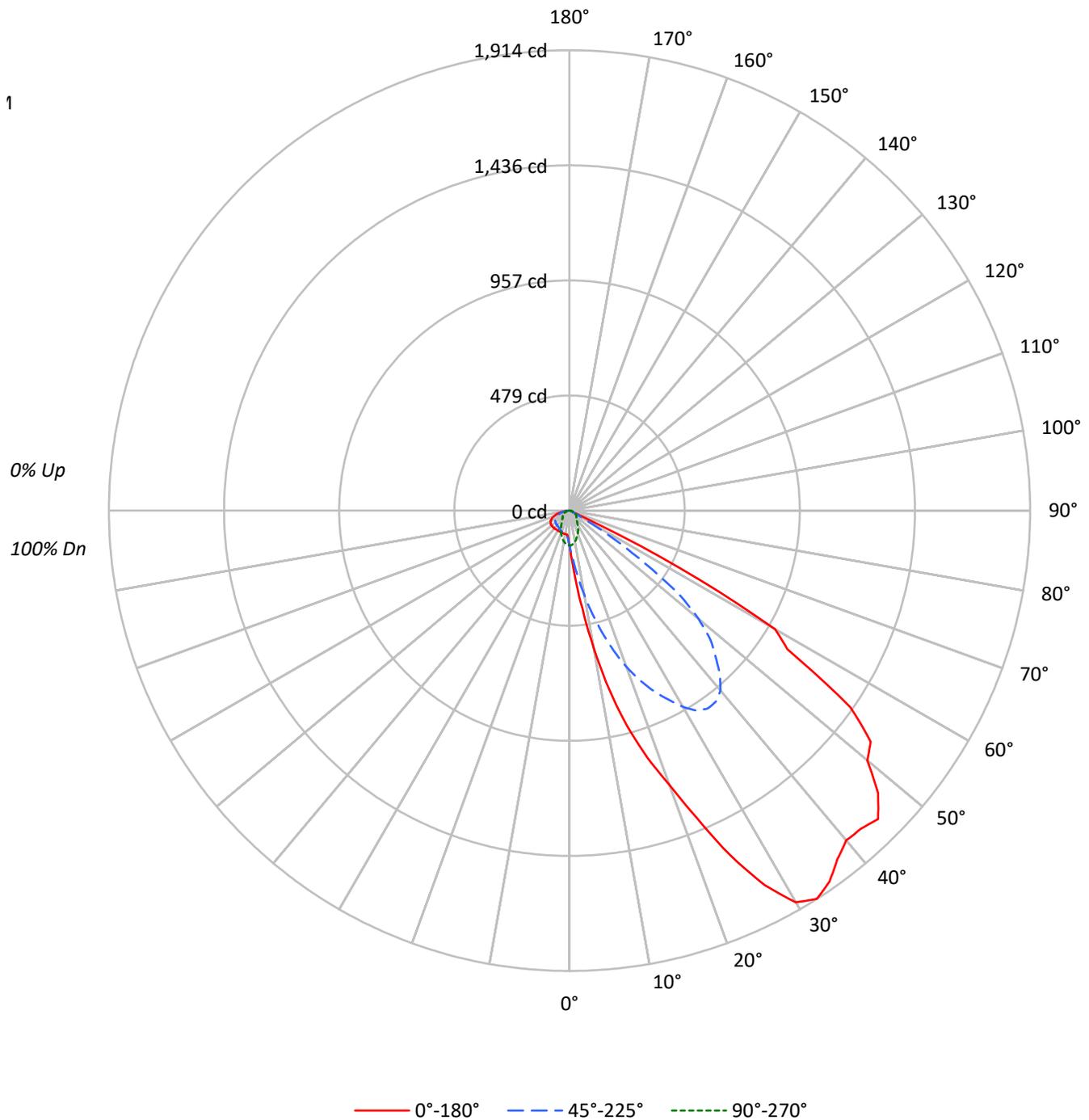
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1457.0 lumens
Efficiency: N/A
Efficacy: 68.7 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 (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	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°	24869	24869	24869	24869	24869
5°	48994	38241	24497	18550	17634
10°	101220	62310	22927	16911	17138
15°	165532	93517	20540	17010	17473
20°	222112	126717	18456	16990	17723
25°	300508	157304	16114	16855	18376
30°	374006	187272	13423	16864	19230
35°	395954	211065	11416	17261	20057
40°	402272	219447	10432	17873	21740
45°	441598	209023	10010	19022	23552
50°	432923	187364	9940	20229	25909
55°	427902	114940	9939	21859	28645
60°	339416	27383	10506	23250	31035
65°	21598	4849	10269	23758	33457
70°	4683	5338	10021	24674	35349
75°	4392	5257	8784	23822	36132
80°	3967	5256	9224	23605	34118
85°	2569	5138	10473	20946	33988

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 466117 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.0	1.2
10°-20°	90.8	6.2
20°-30°	210.7	14.5
30°-40°	327.5	22.5
40°-50°	373.2	25.6
50°-60°	314.3	21.6
60°-70°	91.2	6.3
70°-80°	23.4	1.6
80°-90°	7.9	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°	319.5	21.9
0°-40°	647.0	44.4
0°-60°	1334.6	91.6
0°-90°	1457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1457.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	144	144	144	144	144	
5°	283	221	142	107	102	36
15°	928	524	115	95	98	269
25°	1581	828	85	89	97	734
35°	1883	1004	54	82	95	1170
45°	1813	858	41	78	97	1363
55°	1425	383	33	73	95	1199
65°	53	12	25	58	82	262
75°	7	8	13	36	54	7
85°	1	3	5	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°	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4
2.5°	194.7	193.4	193.4	192.0	190.7	189.4	185.4	184.1	176.1	160.3	144.4
5°	283.4	282.1	278.1	276.8	270.2	260.9	251.6	242.4	221.2	176.1	141.7
7.5°	410.6	413.2	410.6	396.0	386.7	372.2	344.4	324.5	282.1	192.0	136.4
10°	578.8	578.8	574.8	552.3	532.4	504.6	468.8	434.4	356.3	206.6	131.1
12.5°	761.5	765.5	745.7	727.1	691.4	656.9	607.9	556.3	441.0	218.5	124.5
15°	928.4	925.8	905.9	882.1	845.0	797.3	745.7	679.4	524.5	226.5	115.2
17.5°	1076.8	1071.5	1054.2	1027.8	982.7	929.8	863.5	792.0	610.6	233.1	108.6
20°	1211.9	1193.3	1173.4	1145.6	1101.9	1046.3	977.4	896.6	691.4	233.1	100.7
22.5°	1382.7	1364.2	1336.4	1294.0	1235.7	1166.8	1086.0	994.6	762.9	227.8	92.7
25°	1581.4	1566.8	1519.1	1464.8	1389.3	1307.2	1213.2	1090.0	827.8	219.9	84.8
27.5°	1754.9	1739.0	1691.3	1611.8	1520.4	1422.4	1323.1	1197.3	884.7	205.3	75.5
30°	1880.7	1860.8	1823.7	1748.3	1637.0	1517.8	1399.9	1279.4	941.7	188.1	67.5
32.5°	1913.8	1911.2	1883.3	1827.7	1728.4	1597.3	1456.9	1325.8	986.7	165.6	60.9
35°	1883.3	1887.3	1882.0	1854.2	1781.4	1652.9	1494.0	1350.9	1003.9	143.0	54.3
37.5°	1827.7	1833.0	1842.3	1846.3	1799.9	1686.0	1515.2	1361.5	999.9	120.5	50.3
40°	1789.3	1786.7	1786.7	1813.1	1803.9	1700.6	1517.8	1353.6	976.1	96.7	46.4
42.5°	1793.3	1764.1	1744.3	1786.7	1799.9	1693.9	1500.6	1332.4	924.5	74.2	42.4
45°	1813.1	1750.9	1716.5	1770.8	1792.0	1671.4	1468.8	1300.6	858.2	51.7	41.1
47.5°	1739.0	1697.9	1692.6	1769.4	1777.4	1633.0	1419.8	1250.3	794.7	35.8	38.4
50°	1615.8	1609.2	1637.0	1716.5	1717.8	1569.5	1364.2	1158.9	699.3	25.2	37.1
52.5°	1577.4	1581.4	1606.5	1647.6	1609.2	1462.2	1263.5	1082.1	578.8	19.9	35.8
55°	1425.1	1431.7	1455.6	1480.7	1452.9	1331.1	1141.7	989.4	382.8	18.5	33.1
57.5°	1072.8	1090.0	1133.7	1156.2	1158.9	1084.7	1034.4	852.9	215.9	18.5	31.8
60°	985.4	962.9	943.0	896.6	854.3	845.0	850.3	639.7	79.5	17.2	30.5
62.5°	515.2	504.6	535.1	554.9	560.2	589.4	551.0	337.7	17.2	17.2	27.8
65°	53.0	53.0	64.9	86.1	143.0	190.7	181.4	98.0	11.9	15.9	25.2
67.5°	15.9	15.9	15.9	18.5	23.8	23.8	19.9	14.6	11.9	14.6	22.5
70°	9.3	9.3	9.3	9.3	9.3	9.3	10.6	9.3	10.6	13.2	19.9
72.5°	7.9	7.9	7.9	7.9	9.3	9.3	9.3	9.3	9.3	11.9	17.2
75°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	7.9	7.9	9.3	13.2
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	6.6	6.6	6.6	7.9	10.6
80°	4.0	4.0	4.0	4.0	4.0	5.3	5.3	5.3	5.3	6.6	9.3
82.5°	2.6	2.6	2.6	2.6	4.0	4.0	4.0	4.0	4.0	5.3	6.6
85°	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	4.0	5.3
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	4.0
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°	144.4	144.4	144.4	144.4
2.5°	131.1	121.8	116.6	113.9
5°	119.2	107.3	103.3	102.0
7.5°	108.6	100.7	99.3	99.3
10°	102.0	96.7	98.0	98.0
12.5°	98.0	96.7	98.0	99.3
15°	94.0	95.4	98.0	98.0
17.5°	91.4	94.0	96.7	98.0
20°	87.4	92.7	96.7	96.7
22.5°	84.8	91.4	95.4	96.7
25°	82.1	88.7	94.0	96.7
27.5°	78.1	87.4	94.0	95.4
30°	74.2	84.8	92.7	96.7
32.5°	70.2	83.4	92.7	95.4
35°	67.5	82.1	92.7	95.4
37.5°	64.9	80.8	92.7	96.7
40°	63.6	79.5	91.4	96.7
42.5°	60.9	79.5	91.4	96.7
45°	59.6	78.1	91.4	96.7
47.5°	58.3	76.8	91.4	96.7
50°	55.6	75.5	90.1	96.7
52.5°	54.3	74.2	90.1	96.7
55°	51.7	72.8	88.7	95.4
57.5°	50.3	70.2	87.4	92.7
60°	47.7	67.5	84.8	90.1
62.5°	43.7	63.6	80.8	87.4
65°	39.7	58.3	76.8	82.1
67.5°	35.8	54.3	71.5	76.8
70°	31.8	49.0	64.9	70.2
72.5°	27.8	42.4	58.3	62.2
75°	23.8	35.8	49.0	54.3
77.5°	18.5	29.1	41.1	45.0
80°	14.6	23.8	31.8	34.4
82.5°	11.9	17.2	23.8	25.2
85°	7.9	10.6	14.6	17.2
87.5°	4.0	5.3	6.6	7.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)