

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: P1319445

Luminaire Tested: LDSQA3D17R609835DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319445
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: LDSQA3D17R609835DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

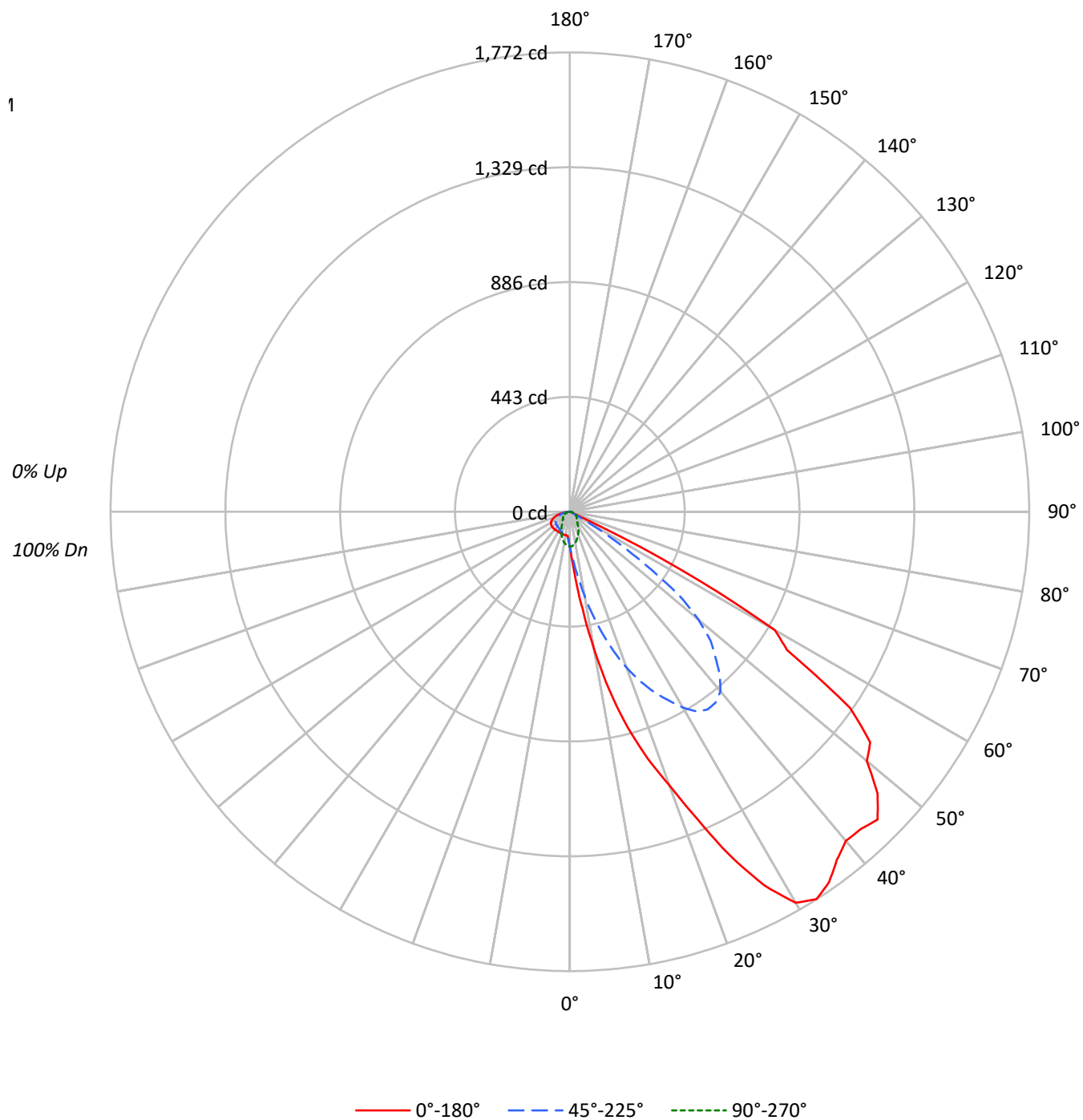
Lumens per Lamp: N/A
Luminaire Lumens: 1349.0 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (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	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°	23026	23026	23026	23026	23026
5°	45364	35406	22682	17167	16320
10°	93718	57693	21230	15652	15862
15°	153265	86582	19024	15744	16172
20°	205635	117315	17081	15725	16403
25°	278237	145636	14917	15620	17007
30°	346285	173391	12429	15611	17798
35°	366604	195423	10575	15979	18565
40°	372460	203193	9645	16547	20121
45°	408863	193532	9255	17609	21799
50°	400825	173485	9190	18728	23980
55°	396194	106413	9218	20238	26513
60°	314237	25351	9713	21528	28727
65°	20009	4483	9495	22006	30971
70°	4330	4935	9265	22861	32730
75°	4059	4924	8185	22025	33470
80°	3670	4860	8529	21919	31638
85°	2371	4940	9683	19365	31419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 431574 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.7	1.2
10°-20°	84.1	6.2
20°-30°	195.1	14.5
30°-40°	303.2	22.5
40°-50°	345.5	25.6
50°-60°	291.0	21.6
60°-70°	84.4	6.3
70°-80°	21.6	1.6
80°-90°	7.3	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°	295.9	21.9
0°-40°	599.1	44.4
0°-60°	1235.6	91.6
0°-90°	1349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1349.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	134	134	134	134	134	
5°	262	205	131	99	94	34
15°	860	486	107	88	91	249
25°	1464	766	78	82	90	680
35°	1744	930	50	76	88	1083
45°	1679	795	38	72	90	1262
55°	1320	354	31	67	88	1110
65°	49	11	23	54	76	243
75°	6	7	12	33	50	6
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°	133.7	133.7	133.7	133.7	133.7	133.7	133.7	133.7	133.7	133.7	133.7
2.5°	180.3	179.0	179.0	177.8	176.6	175.4	171.7	170.4	163.1	148.4	133.7
5°	262.4	261.2	257.5	256.3	250.2	241.6	233.0	224.4	204.8	163.1	131.2
7.5°	380.1	382.6	380.1	366.7	358.1	344.6	318.8	300.4	261.2	177.8	126.3
10°	535.9	535.9	532.2	511.3	493.0	467.2	434.1	402.2	329.9	191.3	121.4
12.5°	705.1	708.8	690.4	673.2	640.1	608.2	562.9	515.0	408.3	202.3	115.3
15°	859.6	857.2	838.8	816.7	782.4	738.2	690.4	629.1	485.6	209.7	106.7
17.5°	996.9	992.0	976.1	951.6	909.9	860.8	799.5	733.3	565.3	215.8	100.6
20°	1122.0	1104.9	1086.5	1060.7	1020.2	968.7	905.0	830.2	640.1	215.8	93.2
22.5°	1280.2	1263.0	1237.3	1198.1	1144.1	1080.3	1005.5	920.9	706.3	210.9	85.8
25°	1464.2	1450.7	1406.5	1356.2	1286.3	1210.3	1123.3	1009.2	766.4	203.6	78.5
27.5°	1624.8	1610.1	1565.9	1492.4	1407.7	1317.0	1225.0	1108.5	819.1	190.1	69.9
30°	1741.3	1722.9	1688.6	1618.7	1515.7	1405.3	1296.2	1184.6	871.9	174.1	62.5
32.5°	1771.9	1769.5	1743.7	1692.2	1600.3	1478.9	1348.9	1227.5	913.6	153.3	56.4
35°	1743.7	1747.4	1742.5	1716.8	1649.3	1530.4	1383.2	1250.8	929.5	132.4	50.3
37.5°	1692.2	1697.1	1705.7	1709.4	1666.5	1561.0	1402.8	1260.6	925.8	111.6	46.6
40°	1656.7	1654.2	1654.2	1678.7	1670.2	1574.5	1405.3	1253.2	903.8	89.5	42.9
42.5°	1660.4	1633.4	1615.0	1654.2	1666.5	1568.4	1389.4	1233.6	855.9	68.7	39.2
45°	1678.7	1621.1	1589.2	1639.5	1659.1	1547.5	1359.9	1204.2	794.6	47.8	38.0
47.5°	1610.1	1572.1	1567.2	1638.3	1645.6	1512.0	1314.5	1157.6	735.8	33.1	35.6
50°	1496.0	1489.9	1515.7	1589.2	1590.5	1453.1	1263.0	1073.0	647.5	23.3	34.3
52.5°	1460.5	1464.2	1487.5	1525.5	1489.9	1353.8	1169.9	1001.9	535.9	18.4	33.1
55°	1319.5	1325.6	1347.7	1371.0	1345.2	1232.4	1057.0	916.0	354.4	17.2	30.7
57.5°	993.3	1009.2	1049.7	1070.5	1073.0	1004.3	957.7	789.7	199.9	17.2	29.4
60°	912.3	891.5	873.1	830.2	790.9	782.4	787.3	592.3	73.6	15.9	28.2
62.5°	477.0	467.2	495.4	513.8	518.7	545.7	510.1	312.7	15.9	15.9	25.8
65°	49.1	49.1	60.1	79.7	132.4	176.6	168.0	90.7	11.0	14.7	23.3
67.5°	14.7	14.7	14.7	17.2	22.1	22.1	18.4	13.5	11.0	13.5	20.8
70°	8.6	8.6	8.6	8.6	8.6	8.6	9.8	8.6	9.8	12.3	18.4
72.5°	7.4	7.4	7.4	7.4	8.6	8.6	8.6	8.6	8.6	11.0	15.9
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.4	7.4	8.6	12.3
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	6.1	6.1	6.1	7.4	9.8
80°	3.7	3.7	3.7	3.7	3.7	4.9	4.9	4.9	4.9	6.1	8.6
82.5°	2.5	2.5	2.5	2.5	3.7	3.7	3.7	3.7	3.7	4.9	6.1
85°	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	4.9
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°	133.7	133.7	133.7	133.7
2.5°	121.4	112.8	107.9	105.5
5°	110.4	99.3	95.6	94.4
7.5°	100.6	93.2	92.0	92.0
10°	94.4	89.5	90.7	90.7
12.5°	90.7	89.5	90.7	92.0
15°	87.1	88.3	90.7	90.7
17.5°	84.6	87.1	89.5	90.7
20°	80.9	85.8	89.5	89.5
22.5°	78.5	84.6	88.3	89.5
25°	76.0	82.2	87.1	89.5
27.5°	72.3	80.9	87.1	88.3
30°	68.7	78.5	85.8	89.5
32.5°	65.0	77.3	85.8	88.3
35°	62.5	76.0	85.8	88.3
37.5°	60.1	74.8	85.8	89.5
40°	58.9	73.6	84.6	89.5
42.5°	56.4	73.6	84.6	89.5
45°	55.2	72.3	84.6	89.5
47.5°	54.0	71.1	84.6	89.5
50°	51.5	69.9	83.4	89.5
52.5°	50.3	68.7	83.4	89.5
55°	47.8	67.4	82.2	88.3
57.5°	46.6	65.0	80.9	85.8
60°	44.1	62.5	78.5	83.4
62.5°	40.5	58.9	74.8	80.9
65°	36.8	54.0	71.1	76.0
67.5°	33.1	50.3	66.2	71.1
70°	29.4	45.4	60.1	65.0
72.5°	25.8	39.2	54.0	57.6
75°	22.1	33.1	45.4	50.3
77.5°	17.2	27.0	38.0	41.7
80°	13.5	22.1	29.4	31.9
82.5°	11.0	15.9	22.1	23.3
85°	7.4	9.8	13.5	15.9
87.5°	3.7	4.9	6.1	7.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)