

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: P1315841

Luminaire Tested: LDSQA3D17R659735DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R659735DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

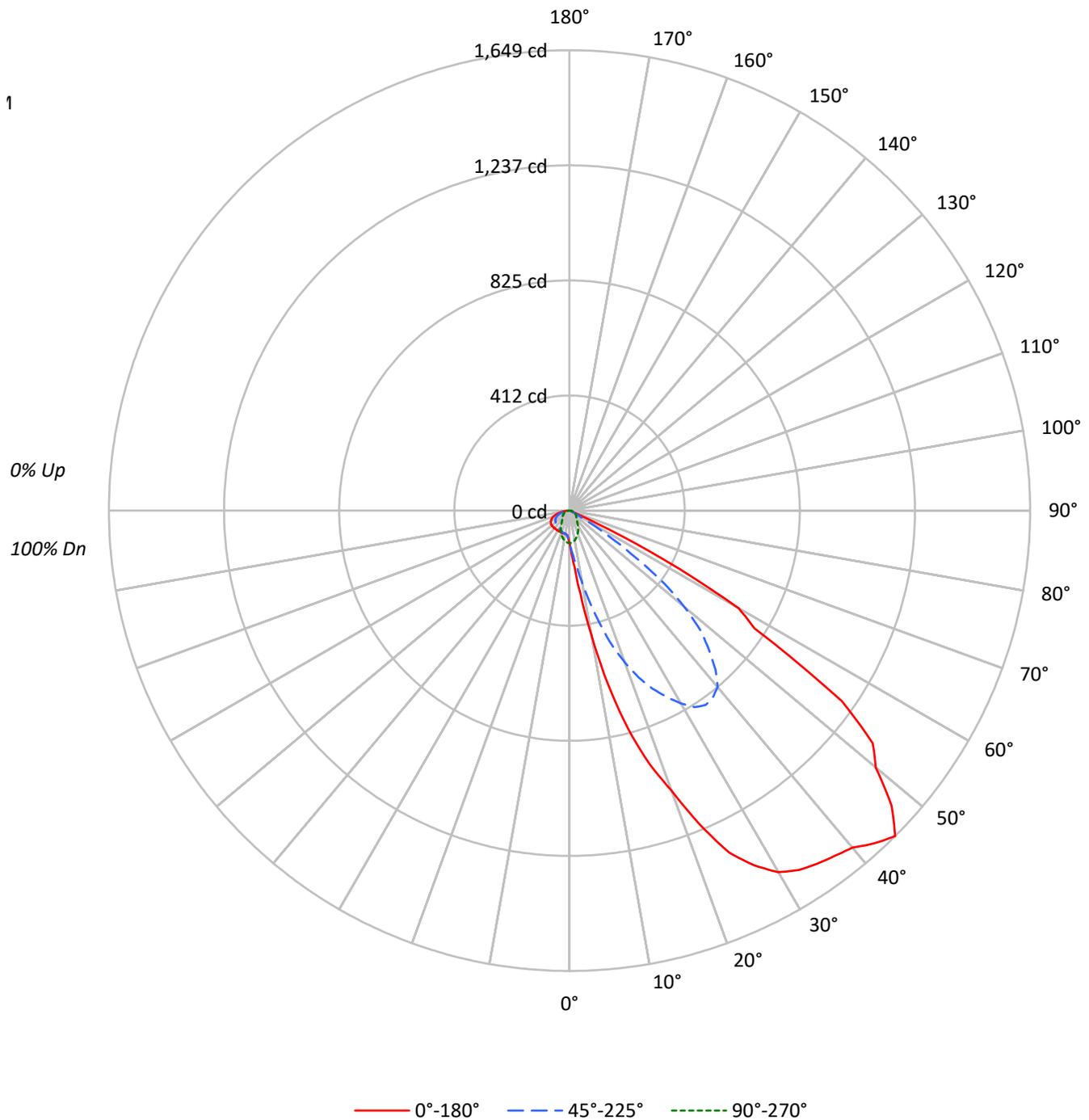
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1196.0 lumens
Efficiency: N/A
Efficacy: 56.4 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
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	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	94	91	92	90	89	89	89	89	87	
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74	
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	64	64	64	62	
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	55	53	
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45	
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39	
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	36	36	36	34	
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29	
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	28	28	28	26	
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20029	20029	20029	20029	20029
5°	35043	28612	19691	15957	15335
10°	79273	46133	18869	14672	14882
15°	144118	74190	17527	14745	15173
20°	195390	105933	15817	14717	15377
25°	256821	133760	13910	14347	15715
30°	297384	158595	11932	14318	16446
35°	324744	178750	10092	14633	17387
40°	354250	185477	8903	15378	18593
45°	401605	172026	8476	16367	20142
50°	383623	143611	8359	17362	22158
55°	357551	80650	8648	18736	24471
60°	240802	17360	8680	19840	26419
65°	37124	4401	8313	20539	28852
70°	4230	4230	7855	21149	30817
75°	3993	3993	7187	20761	31142
80°	3570	4761	7141	19042	30944
85°	2371	4742	7114	18970	28455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 401605 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.1	1.2
10°-20°	76.0	6.4
20°-30°	178.7	14.9
30°-40°	270.0	22.6
40°-50°	310.3	25.9
50°-60°	246.4	20.6
60°-70°	73.8	6.2
70°-80°	20.1	1.7
80°-90°	6.7	0.6
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°	268.8	22.5
0°-40°	538.8	45.0
0°-60°	1095.4	91.6
0°-90°	1196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	116	116	116	116	116	
5°	203	166	114	92	89	27
15°	808	416	98	83	85	233
25°	1352	704	73	76	83	617
35°	1545	850	48	70	83	969
45°	1649	706	35	67	83	1225
55°	1191	269	29	62	82	981
65°	91	11	20	50	71	204
75°	6	6	11	31	47	6
85°	1	2	4	10	14	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3
2.5°	147.5	148.7	147.5	147.5	146.3	145.1	136.7	127.1	116.3	107.9	101.9
5°	202.7	203.9	200.3	200.3	197.9	194.3	165.5	137.9	113.9	100.7	92.3
7.5°	299.8	304.6	298.6	291.4	278.2	275.8	206.3	148.7	111.5	93.5	86.3
10°	453.3	449.7	443.7	429.3	406.5	395.7	263.8	159.5	107.9	88.7	83.9
12.5°	639.2	629.6	622.4	596.0	564.8	546.8	335.8	169.1	103.1	83.9	82.7
15°	808.3	801.1	784.3	759.1	720.7	706.3	416.1	175.1	98.3	80.3	82.7
17.5°	951.0	943.8	934.2	909.0	869.4	847.8	506.1	178.7	92.3	77.9	81.5
20°	1066.1	1061.3	1048.1	1027.7	988.1	967.7	578.0	178.7	86.3	75.5	80.3
22.5°	1214.8	1204.0	1187.2	1157.2	1108.0	1076.9	646.4	175.1	80.3	73.2	77.9
25°	1351.5	1344.3	1322.7	1286.7	1234.0	1202.8	703.9	167.9	73.2	69.6	75.5
27.5°	1433.0	1428.2	1407.8	1370.7	1311.9	1287.9	751.9	157.1	66.0	66.0	74.3
30°	1495.4	1485.8	1465.4	1429.4	1369.5	1340.7	797.5	143.9	60.0	62.4	72.0
32.5°	1526.6	1523.0	1505.0	1473.8	1415.0	1382.7	834.6	127.1	52.8	60.0	70.8
35°	1544.6	1541.0	1526.6	1496.6	1441.4	1410.2	850.2	111.5	48.0	57.6	69.6
37.5°	1558.9	1555.3	1537.4	1507.4	1452.2	1419.8	843.0	94.7	43.2	55.2	68.4
40°	1575.7	1562.5	1535.0	1505.0	1454.6	1423.4	825.0	79.1	39.6	54.0	68.4
42.5°	1616.5	1570.9	1527.8	1500.2	1452.2	1416.2	773.5	62.4	36.0	51.6	67.2
45°	1648.9	1568.5	1513.4	1491.8	1442.6	1401.9	706.3	45.6	34.8	50.4	67.2
47.5°	1563.7	1514.6	1489.4	1477.4	1424.6	1380.3	636.8	31.2	33.6	49.2	66.0
50°	1431.8	1425.8	1416.2	1417.4	1369.5	1333.5	536.0	21.6	31.2	48.0	64.8
52.5°	1368.3	1361.1	1344.3	1332.3	1284.3	1253.2	424.5	16.8	30.0	46.8	63.6
55°	1190.8	1195.6	1177.6	1184.8	1170.4	1154.8	268.6	15.6	28.8	44.4	62.4
57.5°	784.3	808.3	850.2	900.6	946.2	977.3	145.1	15.6	26.4	43.2	60.0
60°	699.1	693.1	691.9	701.5	721.9	738.7	50.4	14.4	25.2	39.6	57.6
62.5°	382.5	380.1	416.1	477.3	513.3	516.8	14.4	14.4	22.8	37.2	54.0
65°	91.1	94.7	105.5	131.9	155.9	171.5	10.8	13.2	20.4	34.8	50.4
67.5°	14.4	15.6	15.6	19.2	21.6	21.6	9.6	12.0	18.0	31.2	46.8
70°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	10.8	15.6	27.6	42.0
72.5°	7.2	7.2	7.2	7.2	7.2	7.2	8.4	9.6	13.2	24.0	36.0
75°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	8.4	10.8	19.2	31.2
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	6.0	7.2	9.6	15.6	25.2
80°	3.6	3.6	3.6	3.6	3.6	3.6	4.8	6.0	7.2	12.0	19.2
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.6	4.8	6.0	9.6	14.4
85°	1.2	1.2	1.2	1.2	2.4	2.4	2.4	3.6	3.6	6.0	9.6
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	3.6	4.8
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):

	157.5°	180°
0°	116.3	116.3
2.5°	98.3	97.1
5°	88.7	88.7
7.5°	85.1	85.1
10°	83.9	85.1
12.5°	83.9	85.1
15°	83.9	85.1
17.5°	83.9	85.1
20°	82.7	83.9
22.5°	81.5	82.7
25°	80.3	82.7
27.5°	79.1	82.7
30°	79.1	82.7
32.5°	79.1	82.7
35°	77.9	82.7
37.5°	77.9	82.7
40°	77.9	82.7
42.5°	77.9	82.7
45°	77.9	82.7
47.5°	77.9	82.7
50°	77.9	82.7
52.5°	76.7	82.7
55°	76.7	81.5
57.5°	74.3	79.1
60°	72.0	76.7
62.5°	69.6	74.3
65°	66.0	70.8
67.5°	62.4	66.0
70°	56.4	61.2
72.5°	50.4	54.0
75°	43.2	46.8
77.5°	36.0	39.6
80°	28.8	31.2
82.5°	20.4	22.8
85°	13.2	14.4
87.5°	6.0	6.0
90°	0.0	0.0

(END OF REPORT)