

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: P1320326

Luminaire Tested: LDSQA3D17R659840DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320326
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: LDSQA3D17R659840DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

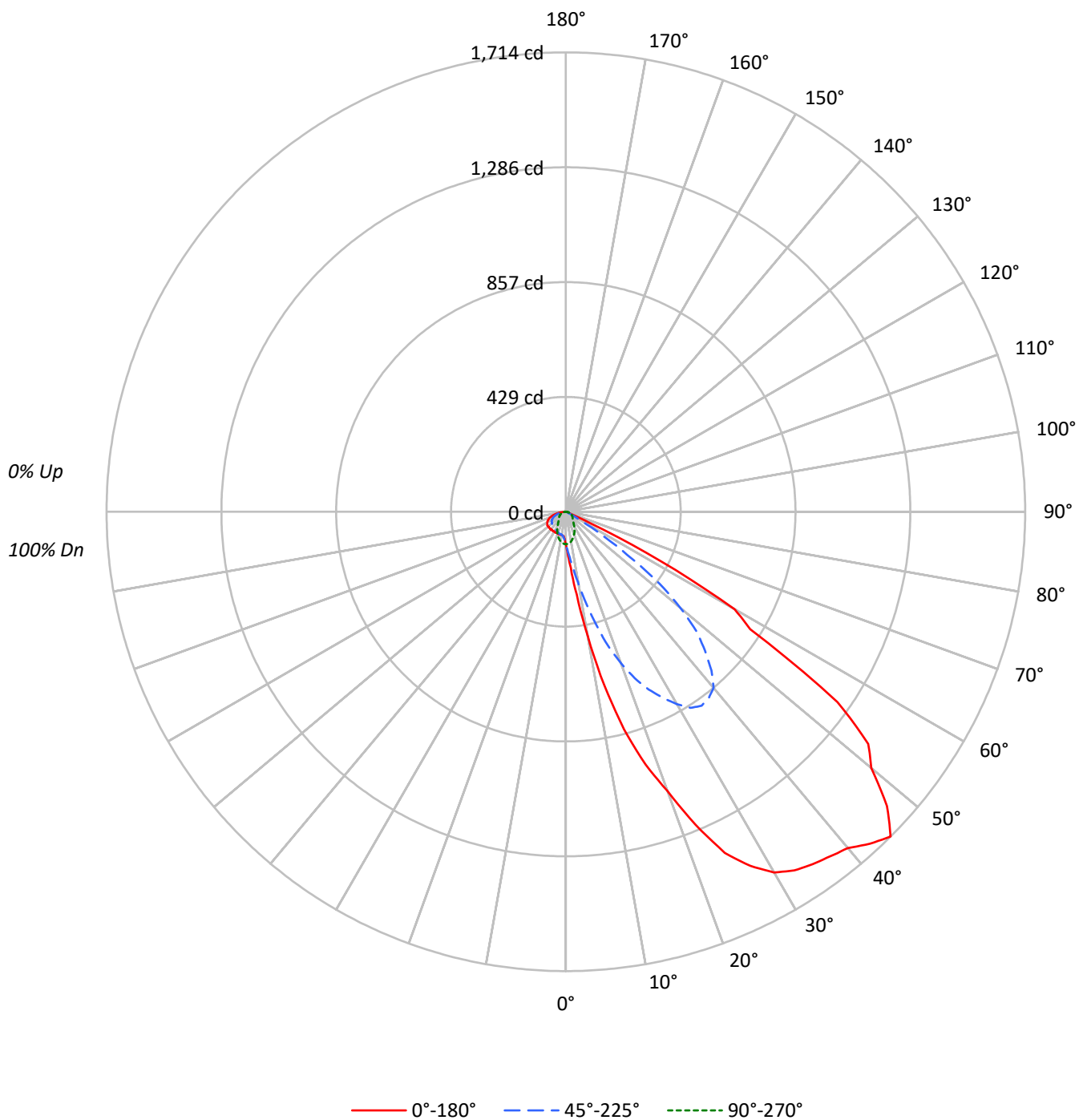
Lumens per Lamp: N/A
Luminaire Lumens: 1243.0 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20822	20822	20822	20822	20822
5°	36409	29735	20469	16597	15940
10°	82386	47952	19621	15249	15477
15°	149770	77114	18222	15334	15779
20°	203069	110094	16440	15304	15982
25°	266911	139024	14442	14917	16342
30°	309077	164820	12389	14875	17102
35°	337506	185773	10491	15201	18081
40°	368189	192784	9240	15962	19335
45°	417388	178797	8793	17000	20946
50°	398708	149264	8681	18032	23042
55°	371603	83833	8978	19457	25432
60°	250274	18014	9024	20598	27487
65°	38592	4564	8639	21313	29952
70°	4381	4381	8157	21955	32025
75°	4126	4126	7453	21560	32339
80°	3670	4959	7438	19737	32134
85°	2371	4940	7311	19760	29640

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 417388 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.6	1.2
10°-20°	79.0	6.4
20°-30°	185.7	14.9
30°-40°	280.6	22.6
40°-50°	322.5	25.9
50°-60°	256.0	20.6
60°-70°	76.7	6.2
70°-80°	20.8	1.7
80°-90°	7.0	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°	279.4	22.5
0°-40°	559.9	45.0
0°-60°	1138.5	91.6
0°-90°	1243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1243.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	121	121	121	121	121	
5°	211	172	118	96	92	28
15°	840	432	102	86	88	242
25°	1405	732	76	78	86	641
35°	1605	884	50	72	86	1007
45°	1714	734	36	70	86	1273
55°	1238	279	30	65	85	1020
65°	95	11	21	52	74	212
75°	6	6	11	32	49	7
85°	1	2	4	10	15	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°	120.9	120.9	120.9	120.9	120.9	120.9	120.9	120.9	120.9	120.9	120.9
2.5°	153.3	154.5	153.3	153.3	152.1	150.8	142.1	132.1	120.9	112.2	105.9
5°	210.6	211.9	208.1	208.1	205.6	201.9	172.0	143.3	118.4	104.7	96.0
7.5°	311.6	316.6	310.3	302.9	289.1	286.7	214.4	154.5	115.9	97.2	89.7
10°	471.1	467.4	461.1	446.2	422.5	411.3	274.2	165.8	112.2	92.2	87.2
12.5°	664.3	654.3	646.8	619.4	587.0	568.3	349.0	175.7	107.2	87.2	86.0
15°	840.0	832.5	815.1	788.9	749.0	734.1	432.5	182.0	102.2	83.5	86.0
17.5°	988.3	980.8	970.9	944.7	903.6	881.1	525.9	185.7	96.0	81.0	84.7
20°	1108.0	1103.0	1089.3	1068.1	1027.0	1005.8	600.7	185.7	89.7	78.5	83.5
22.5°	1262.5	1251.3	1233.8	1202.7	1151.6	1119.2	671.8	182.0	83.5	76.0	81.0
25°	1404.6	1397.1	1374.7	1337.3	1282.5	1250.1	731.6	174.5	76.0	72.3	78.5
27.5°	1489.3	1484.4	1463.2	1424.5	1363.5	1338.5	781.4	163.3	68.5	68.5	77.3
30°	1554.2	1544.2	1523.0	1485.6	1423.3	1393.4	828.8	149.6	62.3	64.8	74.8
32.5°	1586.6	1582.8	1564.1	1531.7	1470.6	1437.0	867.4	132.1	54.8	62.3	73.5
35°	1605.3	1601.5	1586.6	1555.4	1498.1	1465.7	883.6	115.9	49.9	59.8	72.3
37.5°	1620.2	1616.5	1597.8	1566.6	1509.3	1475.6	876.2	98.5	44.9	57.3	71.0
40°	1637.7	1623.9	1595.3	1564.1	1511.8	1479.4	857.5	82.3	41.1	56.1	71.0
42.5°	1680.0	1632.7	1587.8	1559.1	1509.3	1471.9	803.9	64.8	37.4	53.6	69.8
45°	1713.7	1630.2	1572.8	1550.4	1499.3	1456.9	734.1	47.4	36.1	52.3	69.8
47.5°	1625.2	1574.1	1547.9	1535.5	1480.6	1434.5	661.8	32.4	34.9	51.1	68.5
50°	1488.1	1481.9	1471.9	1473.1	1423.3	1385.9	557.1	22.4	32.4	49.9	67.3
52.5°	1422.0	1414.6	1397.1	1384.7	1334.8	1302.4	441.2	17.4	31.2	48.6	66.1
55°	1237.6	1242.6	1223.9	1231.4	1216.4	1200.2	279.2	16.2	29.9	46.1	64.8
57.5°	815.1	840.0	883.6	936.0	983.3	1015.7	150.8	16.2	27.4	44.9	62.3
60°	726.6	720.4	719.1	729.1	750.3	767.7	52.3	15.0	26.2	41.1	59.8
62.5°	397.6	395.1	432.5	496.0	533.4	537.2	15.0	15.0	23.7	38.6	56.1
65°	94.7	98.5	109.7	137.1	162.0	178.2	11.2	13.7	21.2	36.1	52.3
67.5°	15.0	16.2	16.2	19.9	22.4	22.4	10.0	12.5	18.7	32.4	48.6
70°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	11.2	16.2	28.7	43.6
72.5°	7.5	7.5	7.5	7.5	7.5	7.5	8.7	10.0	13.7	24.9	37.4
75°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	8.7	11.2	19.9	32.4
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	6.2	7.5	10.0	16.2	26.2
80°	3.7	3.7	3.7	3.7	3.7	3.7	5.0	6.2	7.5	12.5	19.9
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.7	5.0	6.2	10.0	15.0
85°	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.7	3.7	6.2	10.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.7	5.0
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):

	157.5°	180°
0°	120.9	120.9
2.5°	102.2	101.0
5°	92.2	92.2
7.5°	88.5	88.5
10°	87.2	88.5
12.5°	87.2	88.5
15°	87.2	88.5
17.5°	87.2	88.5
20°	86.0	87.2
22.5°	84.7	86.0
25°	83.5	86.0
27.5°	82.3	86.0
30°	82.3	86.0
32.5°	82.3	86.0
35°	81.0	86.0
37.5°	81.0	86.0
40°	81.0	86.0
42.5°	81.0	86.0
45°	81.0	86.0
47.5°	81.0	86.0
50°	81.0	86.0
52.5°	79.8	86.0
55°	79.8	84.7
57.5°	77.3	82.3
60°	74.8	79.8
62.5°	72.3	77.3
65°	68.5	73.5
67.5°	64.8	68.5
70°	58.6	63.6
72.5°	52.3	56.1
75°	44.9	48.6
77.5°	37.4	41.1
80°	29.9	32.4
82.5°	21.2	23.7
85°	13.7	15.0
87.5°	6.2	6.2
90°	0.0	0.0

(END OF REPORT)