

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: P1320474

Luminaire Tested: LDSQA3D20R659840D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320474
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: LDSQA3D20R659840D010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

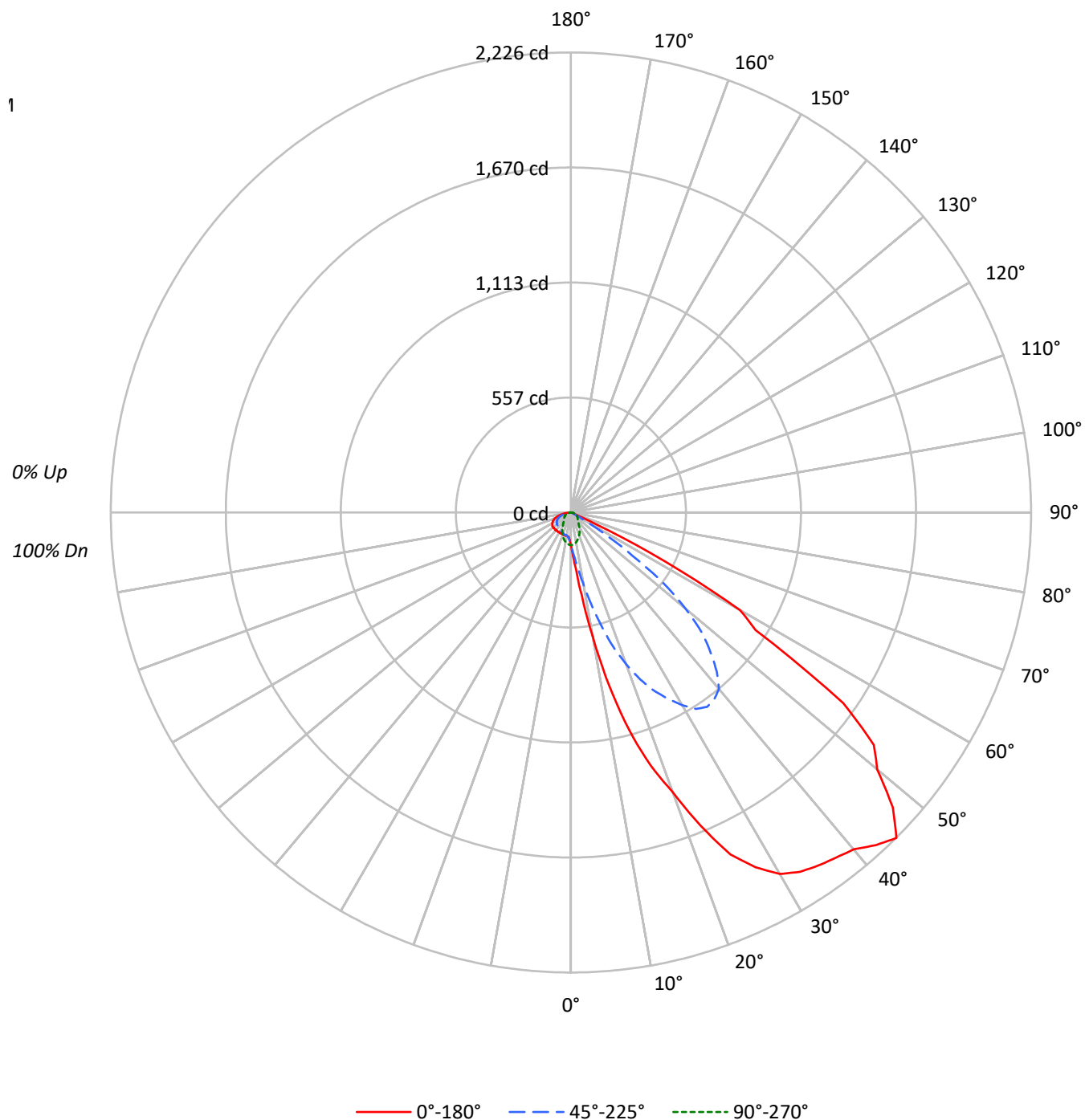
Lumens per Lamp: N/A
Luminaire Lumens: 1615.0 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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	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°	27056	27056	27056	27056	27056
5°	47317	38639	26589	21558	20711
10°	107044	62292	25480	19831	20111
15°	194594	100186	23678	19916	20504
20°	263843	143047	21370	19885	20783
25°	346799	180620	18775	19383	21226
30°	401569	214138	16108	19330	22213
35°	438508	241382	13624	19742	23484
40°	478373	250473	12005	20751	25112
45°	542285	232307	11447	22091	27206
50°	518018	193928	11280	23417	29928
55°	482820	108905	11680	25282	33059
60°	325191	23422	11711	26763	35685
65°	50165	5950	11207	27711	38918
70°	5690	5690	10625	28551	41593
75°	5390	5390	9715	28014	42054
80°	4860	6447	9620	25687	41754
85°	3162	6323	9683	25688	38335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 542285 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	1.2
10°-20°	102.7	6.4
20°-30°	241.3	14.9
30°-40°	364.5	22.6
40°-50°	419.0	25.9
50°-60°	332.7	20.6
60°-70°	99.7	6.2
70°-80°	27.1	1.7
80°-90°	9.1	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°	363.0	22.5
0°-40°	727.5	45.0
0°-60°	1479.2	91.6
0°-90°	1615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1615.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	157	157	157	157	157	
5°	274	224	154	125	120	37
15°	1091	562	133	112	115	314
25°	1825	950	99	102	112	833
35°	2086	1148	65	94	112	1309
45°	2226	954	47	91	112	1654
55°	1608	363	39	84	110	1325
65°	123	15	28	68	96	276
75°	8	8	15	42	63	9
85°	2	3	5	13	19	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°	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1	157.1
2.5°	199.2	200.8	199.2	199.2	197.6	195.9	184.6	171.6	157.1	145.7	137.6
5°	273.7	275.3	270.4	270.4	267.2	262.3	223.5	186.2	153.8	136.0	124.7
7.5°	404.8	411.3	403.2	393.5	375.7	372.4	278.5	200.8	150.6	126.3	116.6
10°	612.1	607.2	599.1	579.7	548.9	534.4	356.2	215.4	145.7	119.8	113.4
12.5°	863.1	850.1	840.4	804.8	762.7	738.4	453.4	228.3	139.3	113.4	111.7
15°	1091.4	1081.7	1059.0	1025.0	973.2	953.8	561.9	236.4	132.8	108.5	111.7
17.5°	1284.1	1274.4	1261.4	1227.4	1174.0	1144.8	683.3	241.3	124.7	105.3	110.1
20°	1439.6	1433.1	1415.3	1387.7	1334.3	1306.8	780.5	241.3	116.6	102.0	108.5
22.5°	1640.4	1625.8	1603.1	1562.6	1496.2	1454.1	872.8	236.4	108.5	98.8	105.3
25°	1825.0	1815.2	1786.1	1737.5	1666.3	1624.2	950.5	226.7	98.8	93.9	102.0
27.5°	1935.1	1928.6	1901.1	1850.9	1771.5	1739.1	1015.3	212.1	89.1	89.1	100.4
30°	2019.3	2006.3	1978.8	1930.2	1849.2	1810.4	1076.8	194.3	81.0	84.2	97.2
32.5°	2061.4	2056.5	2032.2	1990.1	1910.8	1867.1	1127.0	171.6	71.2	81.0	95.5
35°	2085.7	2080.8	2061.4	2020.9	1946.4	1904.3	1148.1	150.6	64.8	77.7	93.9
37.5°	2105.1	2100.2	2075.9	2035.5	1961.0	1917.3	1138.4	127.9	58.3	74.5	92.3
40°	2127.8	2110.0	2072.7	2032.2	1964.2	1922.1	1114.1	106.9	53.4	72.9	92.3
42.5°	2182.8	2121.3	2063.0	2025.7	1961.0	1912.4	1044.5	84.2	48.6	69.6	90.7
45°	2226.5	2118.0	2043.6	2014.4	1948.0	1893.0	953.8	61.5	47.0	68.0	90.7
47.5°	2111.6	2045.2	2011.2	1995.0	1923.7	1863.8	859.9	42.1	45.3	66.4	89.1
50°	1933.4	1925.4	1912.4	1914.0	1849.2	1800.7	723.8	29.1	42.1	64.8	87.4
52.5°	1847.6	1837.9	1815.2	1799.0	1734.3	1692.2	573.2	22.7	40.5	63.2	85.8
55°	1608.0	1614.4	1590.2	1599.9	1580.4	1559.4	362.7	21.1	38.9	59.9	84.2
57.5°	1059.0	1091.4	1148.1	1216.1	1277.6	1319.7	195.9	21.1	35.6	58.3	81.0
60°	944.1	936.0	934.3	947.3	974.8	997.5	68.0	19.4	34.0	53.4	77.7
62.5°	516.6	513.3	561.9	644.5	693.1	697.9	19.4	19.4	30.8	50.2	72.9
65°	123.1	127.9	142.5	178.1	210.5	231.6	14.6	17.8	27.5	47.0	68.0
67.5°	19.4	21.1	21.1	25.9	29.1	29.1	13.0	16.2	24.3	42.1	63.2
70°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	14.6	21.1	37.2	56.7
72.5°	9.7	9.7	9.7	9.7	9.7	9.7	11.3	13.0	17.8	32.4	48.6
75°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	11.3	14.6	25.9	42.1
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	8.1	9.7	13.0	21.1	34.0
80°	4.9	4.9	4.9	4.9	4.9	4.9	6.5	8.1	9.7	16.2	25.9
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	4.9	6.5	8.1	13.0	19.4
85°	1.6	1.6	1.6	1.6	3.2	3.2	3.2	4.9	4.9	8.1	13.0
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	4.9	6.5
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°	157.1	157.1
2.5°	132.8	131.2
5°	119.8	119.8
7.5°	115.0	115.0
10°	113.4	115.0
12.5°	113.4	115.0
15°	113.4	115.0
17.5°	113.4	115.0
20°	111.7	113.4
22.5°	110.1	111.7
25°	108.5	111.7
27.5°	106.9	111.7
30°	106.9	111.7
32.5°	106.9	111.7
35°	105.3	111.7
37.5°	105.3	111.7
40°	105.3	111.7
42.5°	105.3	111.7
45°	105.3	111.7
47.5°	105.3	111.7
50°	105.3	111.7
52.5°	103.6	111.7
55°	103.6	110.1
57.5°	100.4	106.9
60°	97.2	103.6
62.5°	93.9	100.4
65°	89.1	95.5
67.5°	84.2	89.1
70°	76.1	82.6
72.5°	68.0	72.9
75°	58.3	63.2
77.5°	48.6	53.4
80°	38.9	42.1
82.5°	27.5	30.8
85°	17.8	19.4
87.5°	8.1	8.1
90°	0.0	0.0

(END OF REPORT)