

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: P1323962

Luminaire Tested: LDSQA3D13R559030D2WDE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1323962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R559030D2WDE010 3LSQCA45R 1MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R55 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

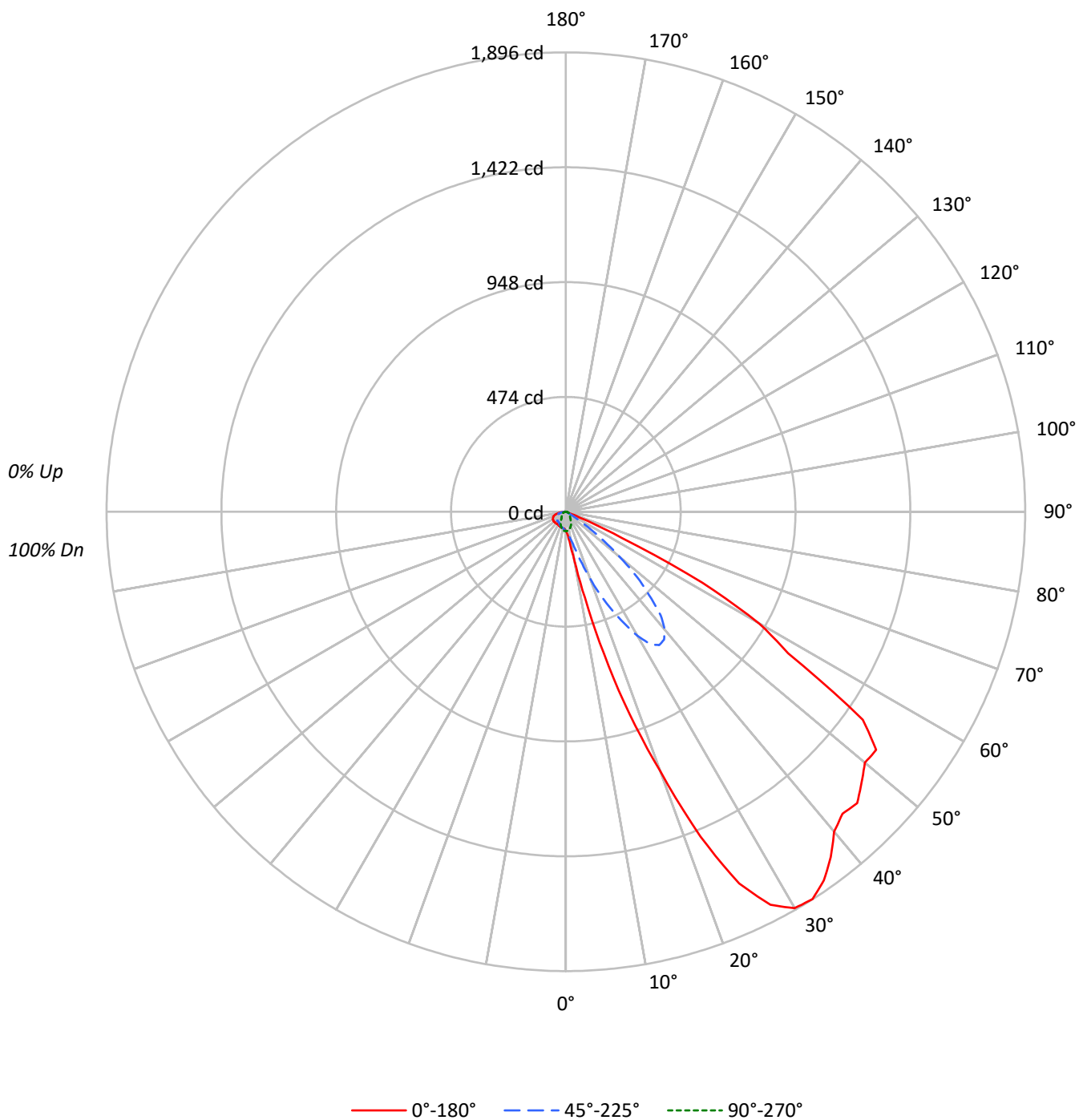
Lumens per Lamp: N/A
Luminaire Lumens: 1219.0 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.1
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

TEST NUMBER: P1323962

CATALOG NUMBER: LDSQA3D13R559030D2WDE010 3LSQCA45R 1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1323962

CATALOG NUMBER: LDSQA3D13R559030D2WDE010 3LSQCA45R 1MW

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	107	104	100	97	99	97	94		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81	78	75	73
3	91	81	73	67	89	80	72	67	77	71	65		74	69	64		72	67	63	61
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	54	51
5	76	63	54	47	74	62	53	47	60	52	47		58	51	46		56	50	46	43
6	69	56	47	40	68	55	46	40	53	46	40		51	45	39		50	44	39	37
7	64	50	41	35	62	49	41	35	48	40	34		46	39	34		45	38	34	32
8	59	45	36	30	57	44	36	30	43	35	30		41	35	29		40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26		38	31	26		36	30	26	24
10	50	37	28	23	49	36	28	23	35	28	23		34	27	23		33	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13537	13537	13537	13537	13537
5°	17323	15836	13588	12655	12292
10°	35221	20146	13186	12049	12049
15°	108120	30917	12285	11714	12106
20°	209044	54085	11052	11455	12041
25°	321734	84125	9615	11060	12067
30°	375697	117589	7935	10918	12429
35°	390404	141306	6560	10870	12909
40°	387433	142626	6048	11376	14051
45°	414222	118053	5772	12324	15222
50°	431717	77914	5761	13263	17014
55°	449521	33960	5825	14563	18766
60°	317579	7784	5924	15948	21149
65°	103590	2649	5705	17116	23717
70°	3273	2719	5942	18430	27141
75°	2861	2861	4991	19364	30077
80°	2182	3174	5356	19241	32035
85°	2174	4347	6323	19168	32012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 456753 cd/sqm

TEST NUMBER: P1323962

CATALOG NUMBER: LDSQA3D13R559030D2WDE010 3LSQCA45R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.7
10°-20°	51.8	4.2
20°-30°	173.5	14.2
30°-40°	284.9	23.4
40°-50°	317.8	26.1
50°-60°	267.5	21.9
60°-70°	90.7	7.4
70°-80°	17.8	1.5
80°-90°	6.7	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°	233.6	19.2
0°-40°	518.5	42.5
0°-60°	1103.8	90.6
0°-90°	1219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1219.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	79	79	79	79	79	
5°	100	92	79	73	71	12
15°	606	173	69	66	68	192
25°	1693	443	51	58	64	761
35°	1857	672	31	52	61	1153
45°	1701	485	24	51	62	1299
55°	1497	113	19	48	62	1219
65°	254	6	14	42	58	344
75°	4	4	8	29	45	5
85°	1	2	3	10	16	1
90°	0	0	0	0	0	

TEST NUMBER: P1323962

CATALOG NUMBER: LDSQA3D13R559030D2WDE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
2.5°	86.2	86.2	86.2	86.2	86.2	86.2	85.1	81.9	79.7	76.5	75.4
5°	100.2	100.2	100.2	99.1	99.1	96.9	91.6	84.0	78.6	74.3	73.2
7.5°	129.2	128.2	126.0	124.9	121.7	120.6	101.2	86.2	77.5	72.2	71.1
10°	201.4	199.3	196.0	184.2	173.4	165.9	115.2	87.2	75.4	70.0	68.9
12.5°	363.0	358.7	342.5	317.7	287.6	272.5	137.9	88.3	72.2	67.9	67.9
15°	606.4	601.0	570.8	536.4	481.4	451.3	173.4	87.2	68.9	64.6	65.7
17.5°	875.6	860.6	829.3	784.1	709.8	674.2	226.2	85.1	64.6	62.5	64.6
20°	1140.6	1136.3	1084.6	1023.2	931.7	884.3	295.1	81.9	60.3	59.2	62.5
22.5°	1450.8	1432.5	1377.6	1311.9	1185.8	1123.4	369.4	77.5	56.0	56.0	60.3
25°	1693.1	1671.6	1628.5	1552.0	1432.5	1365.7	442.7	72.2	50.6	52.8	58.2
27.5°	1828.8	1804.1	1771.8	1706.1	1613.4	1554.2	515.9	65.7	45.2	49.5	56.0
30°	1889.2	1882.7	1859.0	1810.5	1725.4	1672.7	591.3	58.2	39.9	46.3	54.9
32.5°	1895.6	1898.9	1889.2	1857.9	1793.3	1748.1	647.3	51.7	35.5	44.2	52.8
35°	1856.9	1868.7	1875.2	1862.2	1820.2	1783.6	672.1	44.2	31.2	42.0	51.7
37.5°	1796.5	1818.1	1839.6	1842.8	1817.0	1793.3	665.6	37.7	29.1	40.9	51.7
40°	1723.3	1742.7	1786.8	1814.8	1806.2	1789.0	634.4	31.2	26.9	38.8	50.6
42.5°	1689.9	1694.2	1741.6	1789.0	1786.8	1772.8	579.5	24.8	24.8	38.8	50.6
45°	1700.7	1681.3	1712.5	1767.5	1764.2	1745.9	484.7	19.4	23.7	37.7	50.6
47.5°	1655.4	1628.5	1681.3	1745.9	1734.1	1707.1	400.7	14.0	22.6	36.6	49.5
50°	1611.3	1607.0	1647.9	1680.2	1664.1	1649.0	290.8	10.8	21.5	35.5	49.5
52.5°	1614.5	1607.0	1611.3	1610.2	1577.9	1561.7	199.3	8.6	20.5	34.5	49.5
55°	1497.1	1473.4	1450.8	1457.3	1459.4	1448.6	113.1	7.5	19.4	34.5	48.5
57.5°	1087.8	1081.4	1106.1	1176.1	1231.1	1237.5	54.9	7.5	18.3	33.4	47.4
60°	922.0	917.7	918.7	939.2	968.3	950.0	22.6	7.5	17.2	32.3	46.3
62.5°	635.5	677.5	694.7	742.1	722.7	696.9	8.6	8.6	16.2	30.2	45.2
65°	254.2	253.1	276.8	299.4	293.0	273.6	6.5	7.5	14.0	28.0	42.0
67.5°	59.2	53.9	46.3	39.9	33.4	26.9	6.5	7.5	12.9	25.8	39.9
70°	6.5	6.5	6.5	6.5	6.5	5.4	5.4	7.5	11.8	23.7	36.6
72.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.5	9.7	20.5	33.4
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.4	7.5	17.2	29.1
77.5°	3.2	3.2	3.2	4.3	3.2	4.3	4.3	5.4	6.5	14.0	24.8
80°	2.2	2.2	3.2	3.2	3.2	3.2	3.2	4.3	5.4	11.8	19.4
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	3.2	3.2	4.3	8.6	14.0
85°	1.1	1.1	1.1	1.1	1.1	2.2	2.2	3.2	3.2	6.5	9.7
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	3.2	3.2	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1323962

CATALOG NUMBER: LDSQA3D13R559030D2WDE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	78.6	78.6
2.5°	74.3	74.3
5°	72.2	71.1
7.5°	70.0	70.0
10°	68.9	68.9
12.5°	67.9	68.9
15°	67.9	67.9
17.5°	65.7	66.8
20°	64.6	65.7
22.5°	63.5	64.6
25°	62.5	63.5
27.5°	61.4	62.5
30°	60.3	62.5
32.5°	59.2	61.4
35°	59.2	61.4
37.5°	59.2	62.5
40°	59.2	62.5
42.5°	59.2	62.5
45°	59.2	62.5
47.5°	59.2	62.5
50°	59.2	63.5
52.5°	59.2	63.5
55°	59.2	62.5
57.5°	58.2	62.5
60°	58.2	61.4
62.5°	57.1	60.3
65°	54.9	58.2
67.5°	52.8	57.1
70°	49.5	53.9
72.5°	46.3	49.5
75°	42.0	45.2
77.5°	36.6	38.8
80°	29.1	32.3
82.5°	22.6	24.8
85°	15.1	16.2
87.5°	6.5	7.5
90°	0.0	0.0

(END OF REPORT)