

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: P1316797

Luminaire Tested: LDSQA3D17R559740DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316797
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: LDSQA3D17R559740DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

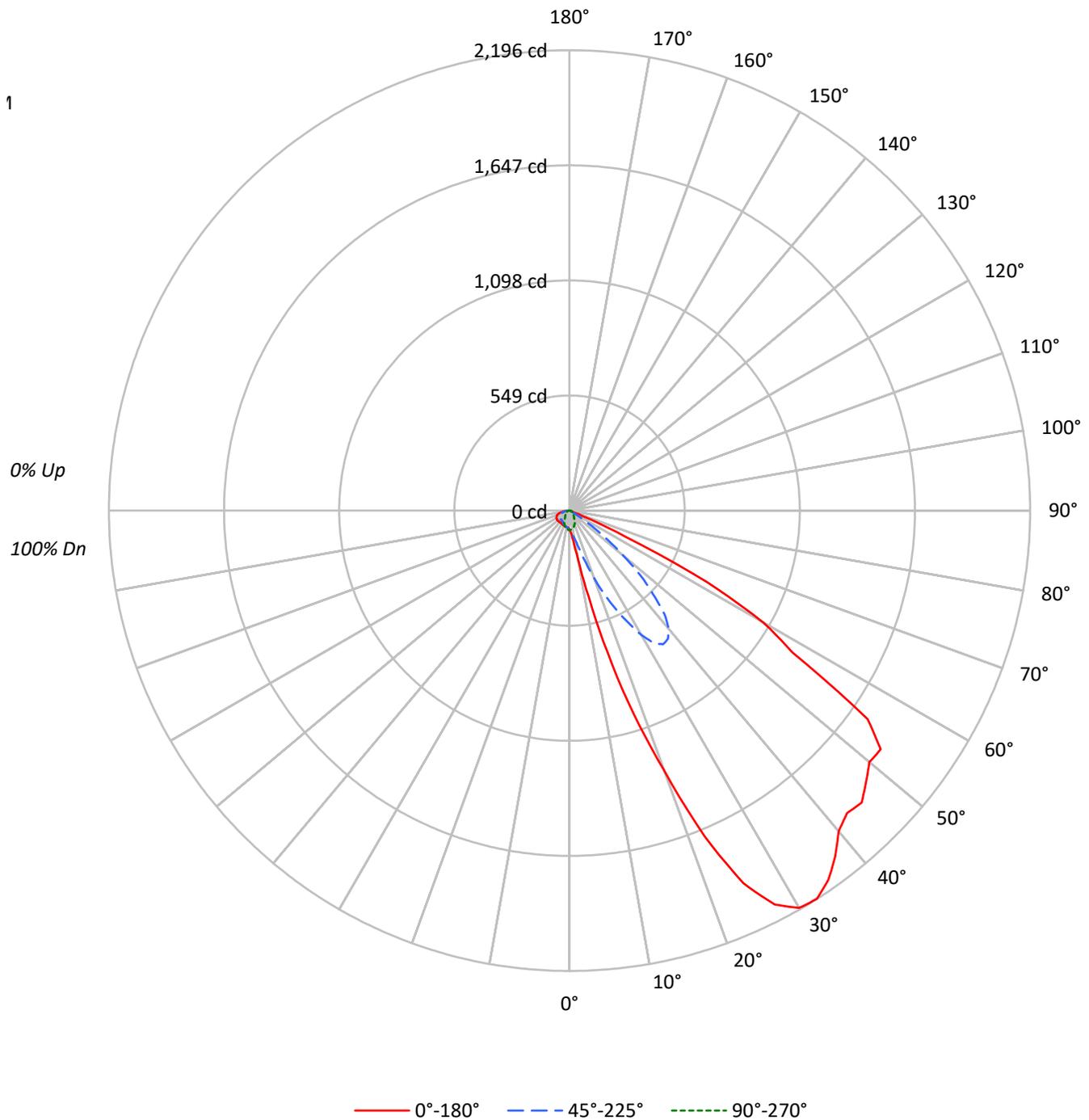
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1412.0 lumens
Efficiency: N/A
Efficacy: 66.6 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): 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	107	104	100	97	99	97	94	95	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	75	73
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	63	63	63	61
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	54	54	54	51
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	46	46	46	43
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	39	39	39	37
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	34	34	34	32
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	29	29	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	26	26	26	24
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	23	23	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15689	15689	15689	15689	15689
5°	20054	18325	15749	14660	14228
10°	40799	23346	15267	13955	13955
15°	125237	35820	14228	13568	14014
20°	242144	62644	12811	13269	13947
25°	372680	97446	11136	12808	13986
30°	435178	136203	9188	12648	14398
35°	452195	163676	7611	12594	14948
40°	448765	165198	7014	13174	16277
45°	479788	136734	6674	14273	17634
50°	500066	90239	6698	15379	19720
55°	520683	39334	6756	16845	21739
60°	367833	9024	6889	18462	24490
65°	119972	3056	6602	19846	27466
70°	3777	3122	6899	21350	31421
75°	3327	3327	5789	22425	34868
80°	2479	3670	6149	22315	37093
85°	2371	4940	7311	22132	36952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 52.5°
 Luminance: 529064 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.7	0.7
10°-20°	59.9	4.2
20°-30°	201.0	14.2
30°-40°	330.1	23.4
40°-50°	368.1	26.1
50°-60°	309.9	21.9
60°-70°	105.1	7.4
70°-80°	20.6	1.5
80°-90°	7.7	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°	270.6	19.2
0°-40°	600.6	42.5
0°-60°	1278.6	90.6
0°-90°	1412.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1412.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	91	91	91	91	91	
5°	116	106	91	85	82	14
15°	702	201	80	76	79	223
25°	1961	513	59	67	74	881
35°	2151	778	36	60	71	1336
45°	1970	561	27	59	72	1504
55°	1734	131	22	56	72	1412
65°	294	8	16	49	67	399
75°	5	5	9	34	52	5
85°	1	2	4	11	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°	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
2.5°	99.8	99.8	99.8	99.8	99.8	99.8	98.6	94.8	92.3	88.6	87.3
5°	116.0	116.0	116.0	114.8	114.8	112.3	106.0	97.3	91.1	86.1	84.8
7.5°	149.7	148.5	146.0	144.7	141.0	139.7	117.3	99.8	89.8	83.6	82.3
10°	233.3	230.8	227.1	213.3	200.9	192.1	133.5	101.1	87.3	81.1	79.8
12.5°	420.4	415.4	396.7	368.0	333.1	315.6	159.7	102.3	83.6	78.6	78.6
15°	702.4	696.2	661.2	621.3	557.7	522.7	200.9	101.1	79.8	74.9	76.1
17.5°	1014.3	996.8	960.6	908.2	822.2	781.0	262.0	98.6	74.9	72.4	74.9
20°	1321.2	1316.2	1256.3	1185.2	1079.2	1024.3	341.8	94.8	69.9	68.6	72.4
22.5°	1680.5	1659.3	1595.7	1519.6	1373.6	1301.2	427.9	89.8	64.9	64.9	69.9
25°	1961.2	1936.3	1886.4	1797.8	1659.3	1581.9	512.8	83.6	58.6	61.1	67.4
27.5°	2118.4	2089.7	2052.3	1976.2	1868.9	1800.3	597.6	76.1	52.4	57.4	64.9
30°	2188.3	2180.8	2153.3	2097.2	1998.6	1937.5	684.9	67.4	46.2	53.6	63.6
32.5°	2195.8	2199.5	2188.3	2152.1	2077.2	2024.8	749.8	59.9	41.2	51.2	61.1
35°	2150.8	2164.6	2172.0	2157.1	2108.4	2066.0	778.5	51.2	36.2	48.7	59.9
37.5°	2081.0	2105.9	2130.9	2134.6	2104.7	2077.2	771.0	43.7	33.7	47.4	59.9
40°	1996.1	2018.6	2069.7	2102.2	2092.2	2072.2	734.8	36.2	31.2	44.9	58.6
42.5°	1957.5	1962.5	2017.3	2072.2	2069.7	2053.5	671.2	28.7	28.7	44.9	58.6
45°	1969.9	1947.5	1983.7	2047.3	2043.5	2022.3	561.4	22.5	27.4	43.7	58.6
47.5°	1917.5	1886.4	1947.5	2022.3	2008.6	1977.4	464.1	16.2	26.2	42.4	57.4
50°	1866.4	1861.4	1908.8	1946.2	1927.5	1910.1	336.8	12.5	25.0	41.2	57.4
52.5°	1870.1	1861.4	1866.4	1865.1	1827.7	1809.0	230.8	10.0	23.7	39.9	57.4
55°	1734.1	1706.7	1680.5	1688.0	1690.5	1678.0	131.0	8.7	22.5	39.9	56.1
57.5°	1260.1	1252.6	1281.3	1362.4	1426.0	1433.5	63.6	8.7	21.2	38.7	54.9
60°	1067.9	1062.9	1064.2	1087.9	1121.6	1100.4	26.2	8.7	20.0	37.4	53.6
62.5°	736.1	784.7	804.7	859.6	837.1	807.2	10.0	10.0	18.7	34.9	52.4
65°	294.4	293.2	320.6	346.8	339.3	316.9	7.5	8.7	16.2	32.4	48.7
67.5°	68.6	62.4	53.6	46.2	38.7	31.2	7.5	8.7	15.0	29.9	46.2
70°	7.5	7.5	7.5	7.5	7.5	6.2	6.2	8.7	13.7	27.4	42.4
72.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.5	11.2	23.7	38.7
75°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.2	8.7	20.0	33.7
77.5°	3.7	3.7	3.7	5.0	3.7	5.0	5.0	6.2	7.5	16.2	28.7
80°	2.5	2.5	3.7	3.7	3.7	3.7	3.7	5.0	6.2	13.7	22.5
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	5.0	10.0	16.2
85°	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7	3.7	7.5	11.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7	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°	91.1	91.1
2.5°	86.1	86.1
5°	83.6	82.3
7.5°	81.1	81.1
10°	79.8	79.8
12.5°	78.6	79.8
15°	78.6	78.6
17.5°	76.1	77.4
20°	74.9	76.1
22.5°	73.6	74.9
25°	72.4	73.6
27.5°	71.1	72.4
30°	69.9	72.4
32.5°	68.6	71.1
35°	68.6	71.1
37.5°	68.6	72.4
40°	68.6	72.4
42.5°	68.6	72.4
45°	68.6	72.4
47.5°	68.6	72.4
50°	68.6	73.6
52.5°	68.6	73.6
55°	68.6	72.4
57.5°	67.4	72.4
60°	67.4	71.1
62.5°	66.1	69.9
65°	63.6	67.4
67.5°	61.1	66.1
70°	57.4	62.4
72.5°	53.6	57.4
75°	48.7	52.4
77.5°	42.4	44.9
80°	33.7	37.4
82.5°	26.2	28.7
85°	17.5	18.7
87.5°	7.5	8.7
90°	0.0	0.0

(END OF REPORT)