

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: P1311522

Luminaire Tested: LDSQA3D13R459040DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R459040DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

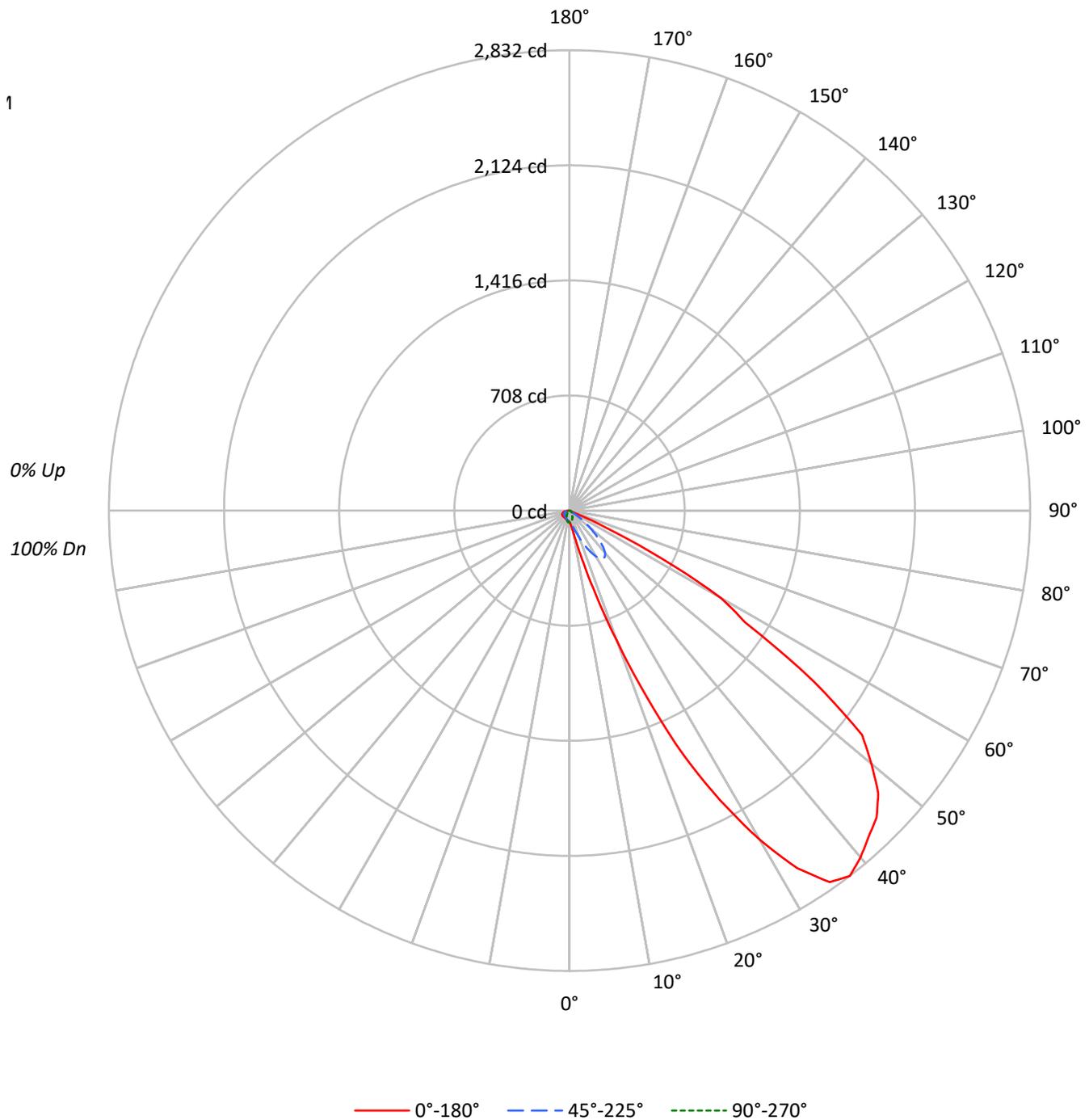
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1265.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	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	96	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	66	77	70	65	74	69	64	71	67	63	63	63	63	61	
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	53	53	53	51	
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	45	45	45	43	
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	38	38	38	36	
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	33	33	33	31	
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	28	28	28	26	
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	24	24	24	22	
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	21	21	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12607	12607	12607	12607	12607
5°	15006	13917	12465	11566	11566
10°	23941	16264	11699	10965	10965
15°	59641	21806	10627	10252	10627
20°	157085	32568	9200	9769	10337
25°	315406	48267	7943	9140	10128
30°	464987	64651	6443	8929	10401
35°	586521	75814	5487	8788	10765
40°	625788	76596	4946	9173	11511
45°	650182	63910	4579	9937	12470
50°	649170	44530	4474	10637	14013
55°	551730	19787	4714	11920	15373
60°	370830	3961	4684	13330	17636
65°	98415	1712	4686	14467	20009
70°	2618	2115	4733	15811	22609
75°	2063	2063	4858	16702	25752
80°	2083	3075	5157	17654	29059
85°	1976	4150	8299	18575	28850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 47.5°
 Luminance: 666926 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.6
10°-20°	35.7	2.8
20°-30°	147.2	11.6
30°-40°	310.1	24.5
40°-50°	382.6	30.2
50°-60°	286.8	22.7
60°-70°	73.8	5.8
70°-80°	15.3	1.2
80°-90°	6.2	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°	190.1	15.0
0°-40°	500.3	39.5
0°-60°	1169.7	92.5
0°-90°	1265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1265.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	73	73	73	73	73	
5°	87	80	72	67	67	10
15°	334	122	60	58	60	122
25°	1660	254	42	48	53	773
35°	2790	361	26	42	51	1700
45°	2670	262	19	41	51	2043
55°	1838	66	16	40	51	1587
65°	242	4	12	36	49	348
75°	3	3	7	25	39	4
85°	1	2	4	9	15	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
2.5°	77.3	77.3	77.3	77.3	77.3	77.3	77.3	76.3	75.3	73.2	71.1
5°	86.8	85.7	85.7	85.7	84.7	83.6	83.6	80.5	76.3	72.1	69.0
7.5°	102.4	102.4	101.4	99.3	98.3	96.2	94.1	85.7	76.3	70.0	65.9
10°	136.9	134.8	131.7	129.6	124.4	117.1	111.8	93.0	75.3	66.9	63.8
12.5°	204.9	209.0	198.6	188.1	173.5	159.9	143.2	105.6	75.3	63.8	60.6
15°	334.5	341.8	321.9	301.0	265.5	232.0	200.7	122.3	73.2	59.6	56.4
17.5°	546.7	556.1	522.6	473.5	418.1	351.2	293.7	145.3	71.1	55.4	53.3
20°	857.1	856.1	791.2	729.6	623.0	524.7	417.1	177.7	67.9	50.2	50.2
22.5°	1238.6	1242.8	1163.4	1052.6	901.0	743.2	571.7	215.3	63.8	46.0	47.0
25°	1659.8	1624.3	1530.2	1395.4	1202.0	983.6	757.8	254.0	59.6	41.8	43.9
27.5°	2011.0	1976.5	1868.9	1709.0	1501.0	1241.7	947.0	292.7	54.4	37.6	40.8
30°	2338.2	2294.3	2164.7	1983.9	1736.1	1456.0	1124.7	325.1	48.1	32.4	37.6
32.5°	2607.9	2568.2	2420.8	2210.7	1941.0	1640.0	1275.2	350.2	41.8	29.3	35.5
35°	2789.7	2749.0	2613.1	2382.1	2088.4	1773.8	1397.5	360.6	36.6	26.1	34.5
37.5°	2831.6	2809.6	2712.4	2496.0	2189.8	1859.5	1475.9	357.5	30.3	24.0	32.4
40°	2783.5	2788.7	2742.7	2562.9	2244.1	1896.1	1508.3	340.7	25.1	22.0	31.4
42.5°	2721.8	2735.4	2732.3	2590.1	2267.1	1898.2	1494.7	307.3	19.9	19.9	30.3
45°	2669.5	2683.1	2701.9	2578.6	2251.4	1871.0	1451.8	262.4	14.6	18.8	30.3
47.5°	2574.4	2589.1	2616.2	2486.6	2172.0	1800.9	1374.5	213.2	10.5	17.8	29.3
50°	2422.9	2430.2	2422.9	2277.6	2019.4	1688.1	1249.1	166.2	7.3	16.7	29.3
52.5°	2267.1	2252.5	2191.9	2007.9	1776.9	1509.3	1091.2	118.1	5.2	15.7	28.2
55°	1837.5	1814.5	1769.6	1656.7	1525.0	1289.8	882.2	65.9	5.2	15.7	27.2
57.5°	1280.4	1293.0	1308.6	1285.6	1225.0	1016.0	670.0	29.3	5.2	14.6	27.2
60°	1076.6	1066.1	1067.2	1052.6	952.2	741.1	461.0	11.5	5.2	13.6	26.1
62.5°	642.8	650.1	663.7	666.9	567.6	413.9	241.5	5.2	5.2	12.5	25.1
65°	241.5	252.9	221.6	192.3	152.6	111.8	56.4	4.2	6.3	11.5	23.0
67.5°	7.3	8.4	10.5	9.4	9.4	8.4	6.3	4.2	6.3	10.5	22.0
70°	5.2	5.2	5.2	5.2	5.2	4.2	4.2	4.2	5.2	9.4	19.9
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.2	8.4	17.8
75°	3.1	4.2	3.1	3.1	3.1	3.1	3.1	3.1	5.2	7.3	14.6
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2	6.3	12.5
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	4.2	5.2	10.5
82.5°	2.1	2.1	2.1	1.0	2.1	2.1	2.1	2.1	4.2	4.2	8.4
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	3.1	4.2	5.2
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.1	3.1	3.1	3.1
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):

	135°	157.5°	180°
0°	73.2	73.2	73.2
2.5°	69.0	69.0	69.0
5°	66.9	66.9	66.9
7.5°	64.8	64.8	64.8
10°	62.7	62.7	62.7
12.5°	60.6	60.6	61.7
15°	57.5	59.6	59.6
17.5°	55.4	57.5	58.5
20°	53.3	55.4	56.4
22.5°	50.2	53.3	55.4
25°	48.1	52.3	53.3
27.5°	46.0	51.2	53.3
30°	44.9	50.2	52.3
32.5°	42.9	49.1	51.2
35°	41.8	49.1	51.2
37.5°	41.8	48.1	51.2
40°	40.8	48.1	51.2
42.5°	40.8	48.1	51.2
45°	40.8	48.1	51.2
47.5°	39.7	48.1	52.3
50°	39.7	49.1	52.3
52.5°	39.7	49.1	52.3
55°	39.7	49.1	51.2
57.5°	38.7	48.1	51.2
60°	38.7	48.1	51.2
62.5°	36.6	47.0	50.2
65°	35.5	46.0	49.1
67.5°	33.4	44.9	47.0
70°	31.4	41.8	44.9
72.5°	28.2	39.7	42.9
75°	25.1	36.6	38.7
77.5°	22.0	32.4	34.5
80°	17.8	27.2	29.3
82.5°	13.6	20.9	22.0
85°	9.4	13.6	14.6
87.5°	4.2	6.3	7.3
90°	0.0	0.0	0.0

(END OF REPORT)