

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: P1320294

Luminaire Tested: LDSQA3D17R459840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320294
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: LDSQA3D17R459840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

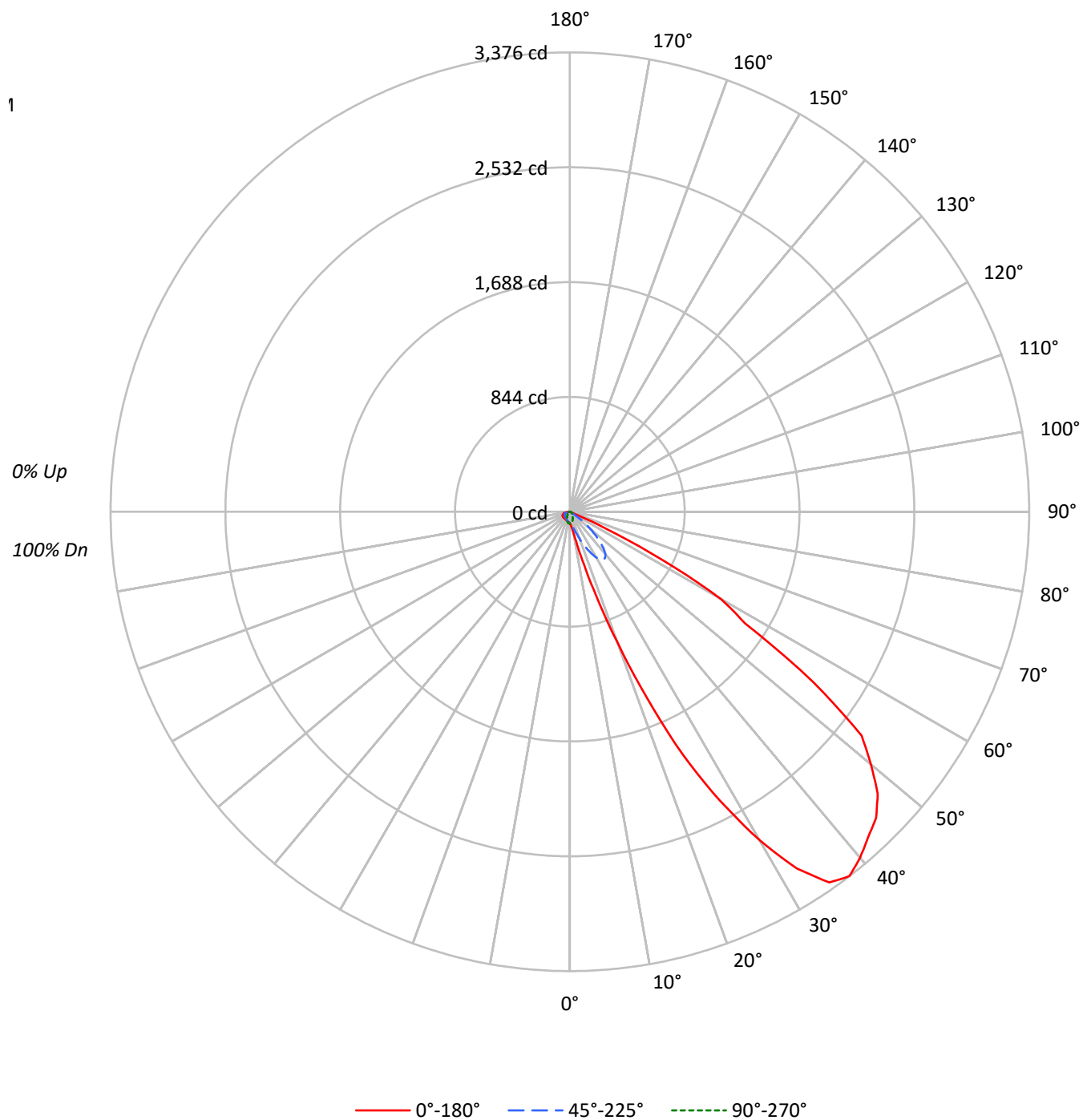
Lumens per Lamp: N/A
Luminaire Lumens: 1508.0 lumens
Efficiency: N/A
Efficacy: 73.9 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1320294

CATALOG NUMBER: LDSQA3D17R459840DE010 3LSQCA45R 1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1320294

CATALOG NUMBER: LDSQA3D17R459840DE010 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	96	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	66	77	70	65	74	69	64	71	67	63	61			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36			
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31			
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26			
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	22			
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	19			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15018	15018	15018	15018	15018
5°	17876	16579	14868	13779	13779
10°	28540	19394	13938	13081	13081
15°	71087	25996	12659	12213	12659
20°	187253	38818	10960	11638	12334
25°	376006	57540	9463	10889	12067
30°	554318	77060	7676	10659	12389
35°	699191	90384	6560	10470	12846
40°	746000	91322	5890	10926	13737
45°	775080	76185	5456	11837	14881
50°	773865	53077	5332	12673	16692
55°	657722	23570	5615	14202	18346
60°	442061	4719	5580	15879	21046
65°	117282	2038	5583	17279	23880
70°	3122	2518	5640	18833	26990
75°	2462	2462	5789	19896	30676
80°	2479	3670	6149	21026	34613
85°	2371	4940	9880	22132	34383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 795050 cd/sqm

TEST NUMBER: P1320294

CATALOG NUMBER: LDSQA3D17R459840DE010 3LSQCA45R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	0.6
10°-20°	42.5	2.8
20°-30°	175.4	11.6
30°-40°	369.7	24.5
40°-50°	456.1	30.2
50°-60°	341.9	22.7
60°-70°	88.0	5.8
70°-80°	18.2	1.2
80°-90°	7.4	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°	226.6	15.0
0°-40°	596.3	39.5
0°-60°	1394.4	92.5
0°-90°	1508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1508.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	87	87	87	87	87	
5°	103	96	86	80	80	12
15°	399	146	71	68	71	146
25°	1979	303	50	57	64	922
35°	3326	430	31	50	61	2027
45°	3182	313	22	49	61	2435
55°	2190	78	19	47	61	1891
65°	288	5	14	42	59	415
75°	4	4	9	30	46	4
85°	1	2	5	11	17	1
90°	0	0	0	0	0	

TEST NUMBER: P1320294

CATALOG NUMBER: LDSQA3D17R459840DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
2.5°	92.2	92.2	92.2	92.2	92.2	92.2	92.2	91.0	89.7	87.2	84.7
5°	103.4	102.2	102.2	102.2	100.9	99.7	99.7	95.9	91.0	86.0	82.2
7.5°	122.1	122.1	120.9	118.4	117.1	114.6	112.1	102.2	91.0	83.5	78.5
10°	163.2	160.7	157.0	154.5	148.3	139.6	133.3	110.9	89.7	79.7	76.0
12.5°	244.2	249.2	236.7	224.3	206.8	190.6	170.7	125.8	89.7	76.0	72.3
15°	398.7	407.4	383.8	358.9	316.5	276.6	239.2	145.8	87.2	71.0	67.3
17.5°	651.7	662.9	623.0	564.4	498.4	418.7	350.1	173.2	84.7	66.0	63.5
20°	1021.7	1020.5	943.2	869.7	742.6	625.5	497.2	211.8	81.0	59.8	59.8
22.5°	1476.5	1481.5	1386.8	1254.7	1074.1	885.9	681.6	256.7	76.0	54.8	56.1
25°	1978.7	1936.3	1824.2	1663.4	1432.9	1172.5	903.4	302.8	71.0	49.8	52.3
27.5°	2397.3	2356.2	2227.9	2037.2	1789.3	1480.3	1128.9	348.9	64.8	44.9	48.6
30°	2787.4	2735.0	2580.5	2365.0	2069.6	1735.7	1340.7	387.5	57.3	38.6	44.9
32.5°	3108.8	3061.5	2885.8	2635.3	2313.9	1955.0	1520.1	417.4	49.8	34.9	42.4
35°	3325.6	3277.0	3115.1	2839.7	2489.6	2114.5	1665.9	429.9	43.6	31.2	41.1
37.5°	3375.5	3349.3	3233.4	2975.5	2610.4	2216.7	1759.4	426.1	36.1	28.7	38.6
40°	3318.2	3324.4	3269.6	3055.3	2675.2	2260.3	1798.0	406.2	29.9	26.2	37.4
42.5°	3244.6	3260.8	3257.1	3087.6	2702.6	2262.8	1781.8	366.3	23.7	23.7	36.1
45°	3182.3	3198.5	3221.0	3073.9	2683.9	2230.4	1730.7	312.8	17.4	22.4	36.1
47.5°	3069.0	3086.4	3118.8	2964.3	2589.2	2146.9	1638.5	254.2	12.5	21.2	34.9
50°	2888.3	2897.0	2888.3	2715.1	2407.3	2012.3	1489.0	198.1	8.7	19.9	34.9
52.5°	2702.6	2685.2	2612.9	2393.6	2118.2	1799.3	1300.8	140.8	6.2	18.7	33.6
55°	2190.5	2163.1	2109.5	1974.9	1817.9	1537.6	1051.6	78.5	6.2	18.7	32.4
57.5°	1526.4	1541.3	1560.0	1532.6	1460.3	1211.1	798.7	34.9	6.2	17.4	32.4
60°	1283.4	1270.9	1272.2	1254.7	1135.1	883.4	549.5	13.7	6.2	16.2	31.2
62.5°	766.3	775.0	791.2	795.0	676.6	493.4	287.8	6.2	6.2	15.0	29.9
65°	287.8	301.5	264.2	229.3	181.9	133.3	67.3	5.0	7.5	13.7	27.4
67.5°	8.7	10.0	12.5	11.2	11.2	10.0	7.5	5.0	7.5	12.5	26.2
70°	6.2	6.2	6.2	6.2	6.2	5.0	5.0	5.0	6.2	11.2	23.7
72.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.2	10.0	21.2
75°	3.7	5.0	3.7	3.7	3.7	3.7	3.7	3.7	6.2	8.7	17.4
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	7.5	15.0
80°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	5.0	6.2	12.5
82.5°	2.5	2.5	2.5	1.2	2.5	2.5	2.5	2.5	5.0	5.0	10.0
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	3.7	5.0	6.2
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	2.5	3.7	3.7	3.7
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: P1320294

CATALOG NUMBER: LDSQA3D17R459840DE010 3LSQCA45R 1MW

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	87.2	87.2	87.2
2.5°	82.2	82.2	82.2
5°	79.7	79.7	79.7
7.5°	77.3	77.3	77.3
10°	74.8	74.8	74.8
12.5°	72.3	72.3	73.5
15°	68.5	71.0	71.0
17.5°	66.0	68.5	69.8
20°	63.5	66.0	67.3
22.5°	59.8	63.5	66.0
25°	57.3	62.3	63.5
27.5°	54.8	61.1	63.5
30°	53.6	59.8	62.3
32.5°	51.1	58.6	61.1
35°	49.8	58.6	61.1
37.5°	49.8	57.3	61.1
40°	48.6	57.3	61.1
42.5°	48.6	57.3	61.1
45°	48.6	57.3	61.1
47.5°	47.3	57.3	62.3
50°	47.3	58.6	62.3
52.5°	47.3	58.6	62.3
55°	47.3	58.6	61.1
57.5°	46.1	57.3	61.1
60°	46.1	57.3	61.1
62.5°	43.6	56.1	59.8
65°	42.4	54.8	58.6
67.5°	39.9	53.6	56.1
70°	37.4	49.8	53.6
72.5°	33.6	47.3	51.1
75°	29.9	43.6	46.1
77.5°	26.2	38.6	41.1
80°	21.2	32.4	34.9
82.5°	16.2	24.9	26.2
85°	11.2	16.2	17.4
87.5°	5.0	7.5	8.7
90°	0.0	0.0	0.0

(END OF REPORT)