

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: P1320333

Luminaire Tested: LDSQA3D17R709840DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R709840DE010 3LSQCA45R 1MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII
Light Source: -
Ballast/Driver: -

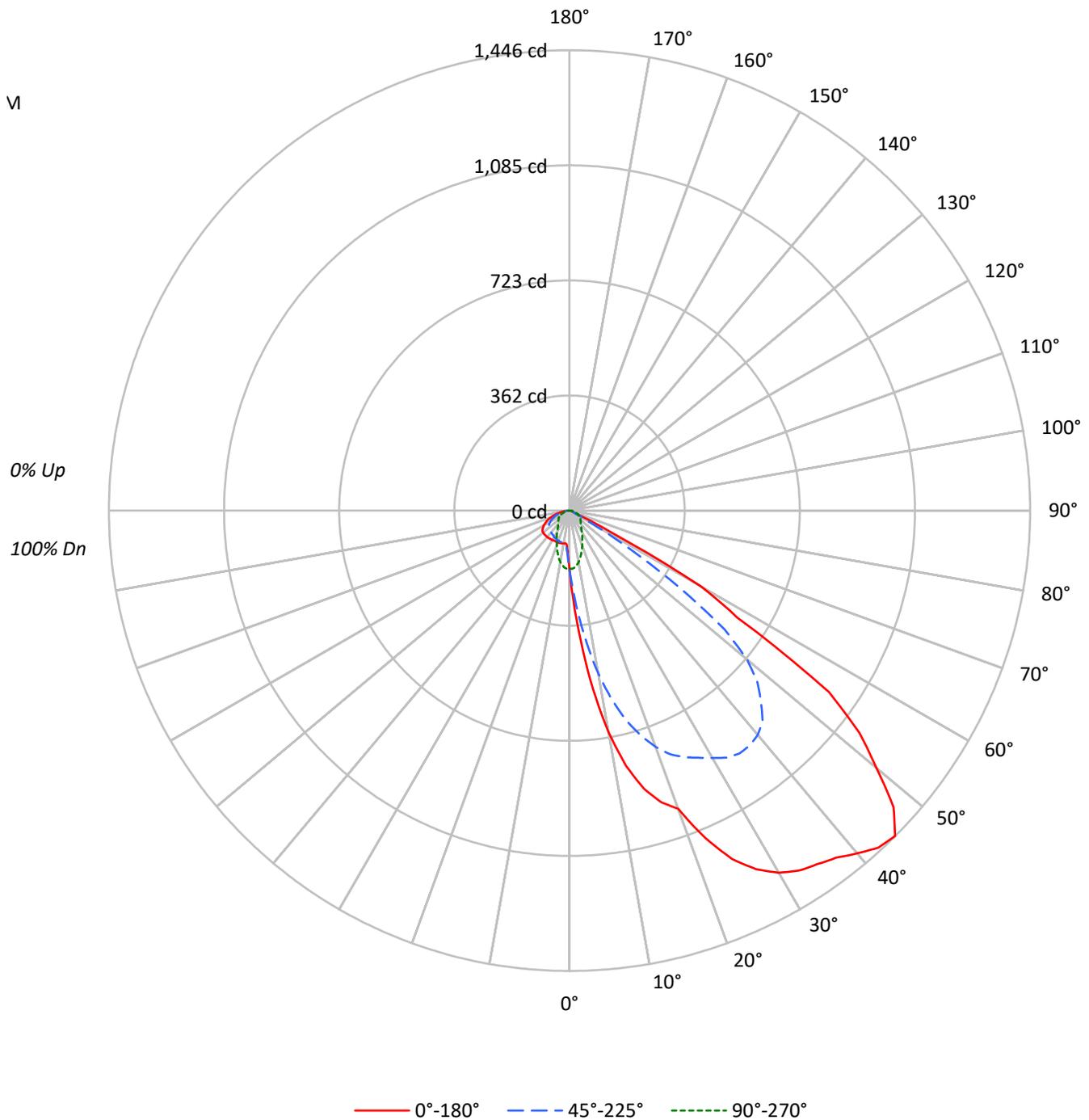
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1249.0 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
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 (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	100				100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87				87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75				75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64				64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54				54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47				47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41				41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35				35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31				31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31327	31327	31327	31327	31327
5°	71313	57085	31015	19605	18308
10°	123570	90658	28768	17873	18310
15°	161306	121082	25104	18222	18882
20°	182707	144788	21462	18492	19647
25°	229457	162435	17996	18699	20124
30°	261190	178422	15372	19091	21318
35°	285050	195717	13372	19385	22538
40°	316008	206745	12320	20166	24371
45°	352065	207001	12129	21238	26402
50°	337218	194652	12030	22372	28722
55°	298580	126080	12341	23570	31047
60°	163543	27039	12434	24042	32206
65°	11696	6602	12185	23880	32520
70°	5640	6294	11279	22609	31371
75°	4991	6654	10780	21560	29012
80°	4959	6149	9918	19737	27175
85°	4940	7311	9880	17191	24700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 352065 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	1.9
10°-20°	101.5	8.1
20°-30°	194.7	15.6
30°-40°	275.4	22.0
40°-50°	311.5	24.9
50°-60°	246.7	19.8
60°-70°	66.5	5.3
70°-80°	22.1	1.8
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°	320.0	25.6
0°-40°	595.4	47.7
0°-60°	1153.6	92.4
0°-90°	1249.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1249.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	182	182	182	182	182	
5°	412	330	179	113	106	49
15°	905	679	141	102	106	255
25°	1208	855	95	98	106	553
35°	1356	931	64	92	107	854
45°	1446	850	50	87	108	1081
55°	994	420	41	78	103	807
65°	29	16	30	59	80	103
75°	8	10	16	32	44	8
85°	2	4	5	9	12	3
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°	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9	181.9
2.5°	282.9	282.9	281.6	276.6	274.1	267.9	262.9	249.2	215.6	183.2	157.0
5°	412.5	418.7	410.0	408.7	401.3	390.0	382.6	330.2	249.2	179.4	134.6
7.5°	565.7	568.2	565.7	553.3	542.1	523.4	505.9	423.7	282.9	173.2	118.4
10°	706.6	702.8	695.3	686.6	670.4	650.5	620.6	518.4	315.3	164.5	108.4
12.5°	821.2	820.0	811.2	802.5	782.6	756.4	726.5	604.4	342.7	153.3	103.4
15°	904.7	904.7	896.0	886.0	867.3	846.1	812.5	679.1	365.1	140.8	98.4
17.5°	960.8	958.3	952.0	944.6	929.6	908.4	882.3	739.0	380.1	128.4	97.2
20°	996.9	995.7	990.7	979.5	967.0	950.8	927.1	790.0	386.3	117.1	96.0
22.5°	1112.8	1102.8	1084.1	1060.5	1030.5	991.9	959.5	828.7	383.8	104.7	93.5
25°	1207.5	1203.8	1183.8	1155.2	1115.3	1065.4	1011.9	854.8	371.3	94.7	91.0
27.5°	1269.8	1263.6	1244.9	1213.7	1171.4	1122.8	1072.9	874.8	353.9	86.0	87.2
30°	1313.4	1309.7	1291.0	1256.1	1212.5	1158.9	1107.8	897.2	330.2	77.3	83.5
32.5°	1340.8	1337.1	1318.4	1287.3	1244.9	1188.8	1130.2	919.6	301.6	69.8	79.8
35°	1355.8	1352.1	1330.9	1303.5	1263.6	1208.7	1146.4	930.9	266.7	63.6	76.0
37.5°	1374.5	1367.0	1338.3	1304.7	1264.8	1213.7	1151.4	929.6	231.8	58.6	73.5
40°	1405.6	1385.7	1344.6	1299.7	1258.6	1207.5	1147.7	919.6	193.2	54.8	71.0
42.5°	1435.5	1406.9	1345.8	1292.2	1246.1	1196.3	1134.0	897.2	150.8	52.3	69.8
45°	1445.5	1403.1	1328.4	1274.8	1231.2	1180.1	1115.3	849.9	102.2	49.8	67.3
47.5°	1379.5	1348.3	1286.0	1246.1	1205.0	1155.2	1087.9	800.0	58.6	47.4	64.8
50°	1258.6	1238.7	1203.8	1178.8	1156.4	1121.5	1055.5	726.5	34.9	44.9	62.3
52.5°	1146.4	1140.2	1115.3	1095.3	1082.9	1066.7	1006.9	613.1	28.7	43.6	59.8
55°	994.4	974.5	968.2	960.8	986.9	985.7	904.7	419.9	27.4	41.1	57.3
57.5°	624.3	633.0	665.4	725.2	796.3	837.4	834.9	224.3	26.2	38.6	53.6
60°	474.8	473.5	483.5	508.4	560.8	619.3	674.2	78.5	24.9	36.1	51.1
62.5°	142.1	145.8	175.7	257.9	309.0	381.3	347.7	18.7	23.7	32.4	46.1
65°	28.7	29.9	29.9	33.6	41.1	62.3	76.0	16.2	22.4	29.9	42.4
67.5°	12.5	12.5	12.5	13.7	13.7	16.2	13.7	15.0	19.9	26.2	37.4
70°	11.2	11.2	11.2	11.2	11.2	11.2	12.5	12.5	17.4	22.4	32.4
72.5°	8.7	8.7	8.7	10.0	10.0	10.0	10.0	11.2	15.0	18.7	27.4
75°	7.5	7.5	7.5	7.5	8.7	8.7	8.7	10.0	12.5	16.2	22.4
77.5°	6.2	6.2	6.2	6.2	6.2	7.5	7.5	7.5	10.0	12.5	18.7
80°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.2	7.5	10.0	13.7
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0	6.2	7.5	10.0
85°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	5.0	6.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	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



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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	181.9	181.9	181.9
2.5°	138.3	130.8	127.1
5°	113.4	107.2	105.9
7.5°	104.7	103.4	103.4
10°	102.2	103.4	104.7
12.5°	102.2	104.7	105.9
15°	102.2	104.7	105.9
17.5°	102.2	104.7	105.9
20°	100.9	104.7	107.2
22.5°	99.7	104.7	105.9
25°	98.4	104.7	105.9
27.5°	97.2	103.4	105.9
30°	96.0	103.4	107.2
32.5°	93.5	103.4	107.2
35°	92.2	103.4	107.2
37.5°	91.0	103.4	108.4
40°	89.7	103.4	108.4
42.5°	88.5	103.4	108.4
45°	87.2	102.2	108.4
47.5°	84.7	102.2	108.4
50°	83.5	100.9	107.2
52.5°	81.0	99.7	107.2
55°	78.5	97.2	103.4
57.5°	74.8	93.5	98.4
60°	69.8	88.5	93.5
62.5°	63.6	82.2	86.0
65°	58.6	74.8	79.8
67.5°	51.1	66.0	71.0
70°	44.9	57.3	62.3
72.5°	38.6	48.6	53.6
75°	32.4	39.9	43.6
77.5°	24.9	32.4	34.9
80°	19.9	24.9	27.4
82.5°	13.7	17.4	18.7
85°	8.7	11.2	12.5
87.5°	3.7	5.0	5.0
90°	0.0	0.0	0.0

(END OF REPORT)