

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: P1320310

Luminaire Tested: LDSQA3D17R559840DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320310  
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: LDSQA3D17R559840DE010 3LSQCA45R 1MB  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

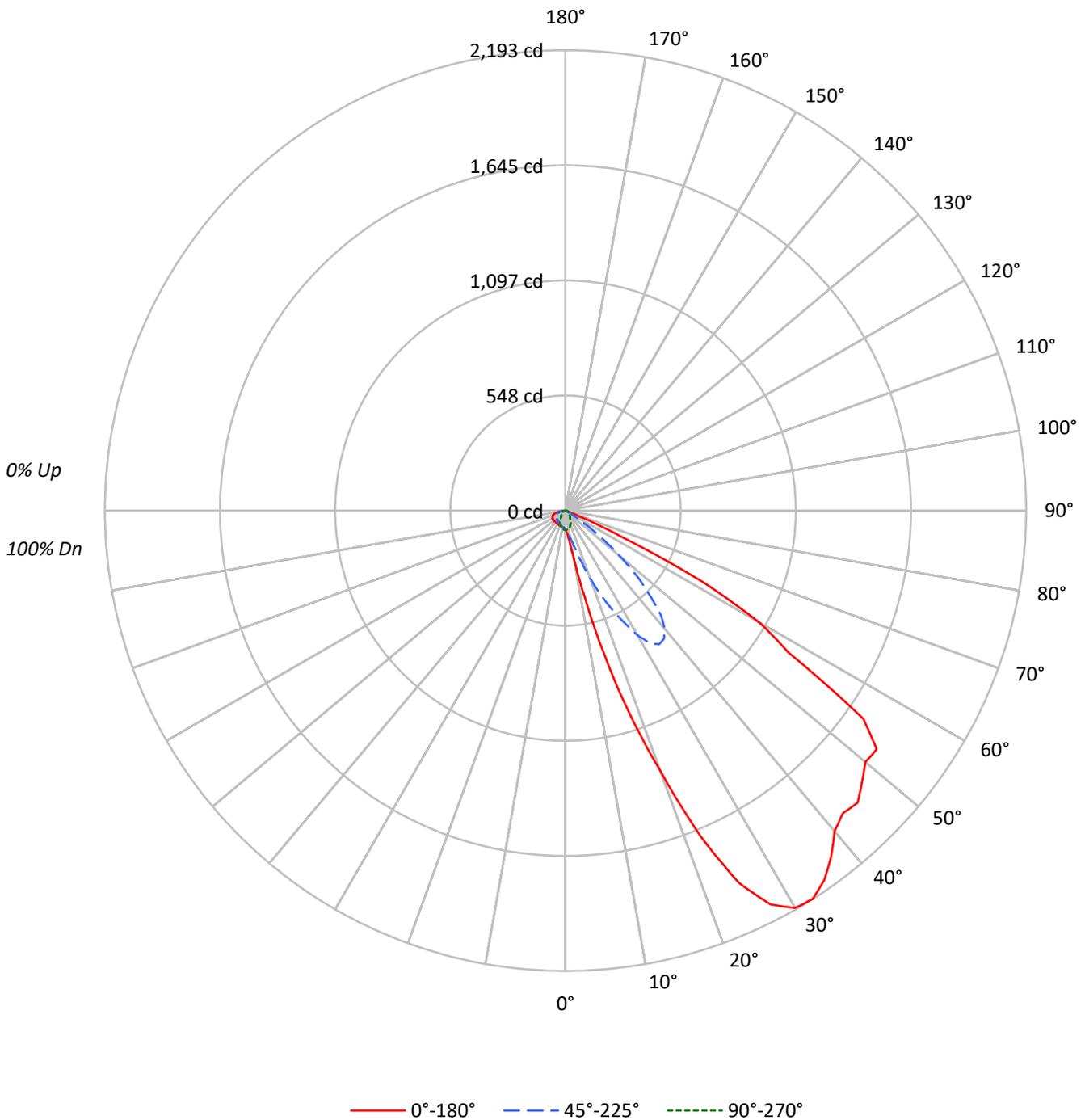
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1410.0 lumens  
Efficiency: N/A  
Efficacy: 69.1 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): 20.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	100	100
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86	86	86	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73	73	73
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61	61	61	61
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51	51	51	51
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43	43	43	43
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37	37	37	37
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32	32	32	32
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27	27	27	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24	24	24	24
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21	21	21	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	15655	15655	15655	15655	15655
5°	20037	18308	15715	14643	14211
10°	40747	23311	15249	13938	13938
15°	125058	35767	14210	13551	13996
20°	241795	62570	12793	13251	13929
25°	372148	97294	11136	12789	13967
30°	434561	136024	9168	12628	14378
35°	451564	163444	7590	12573	14927
40°	448135	164973	6992	13174	16255
45°	479106	136540	6674	14273	17609
50°	499343	90132	6671	15352	19693
55°	519962	39274	6726	16845	21709
60°	367316	9024	6854	18462	24456
65°	119809	3056	6602	19805	27426
70°	3777	3122	6899	21350	31371
75°	3327	3327	5789	22358	34801
80°	2479	3670	6149	22216	37093
85°	2371	4940	7311	22132	36952

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 528328 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°	200.7	14.2
30°-40°	329.6	23.4
40°-50°	367.6	26.1
50°-60°	309.4	21.9
60°-70°	105.0	7.4
70°-80°	20.5	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°	270.2	19.2
0°-40°	599.8	42.5
0°-60°	1276.8	90.6
0°-90°	1410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1410.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	91	91	91	91	91	
5°	116	106	91	85	82	14
15°	701	201	80	76	78	222
25°	1958	512	59	67	74	880
35°	2148	777	36	60	71	1334
45°	1967	561	27	59	72	1502
55°	1732	131	22	56	72	1410
65°	294	8	16	49	67	398
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°	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
2.5°	99.7	99.7	99.7	99.7	99.7	99.7	98.4	94.7	92.2	88.5	87.2
5°	115.9	115.9	115.9	114.6	114.6	112.1	105.9	97.2	90.9	86.0	84.7
7.5°	149.5	148.3	145.8	144.5	140.8	139.5	117.1	99.7	89.7	83.5	82.2
10°	233.0	230.5	226.7	213.0	200.6	191.9	133.3	100.9	87.2	81.0	79.7
12.5°	419.8	414.9	396.2	367.5	332.6	315.2	159.5	102.2	83.5	78.5	78.5
15°	701.4	695.2	660.3	620.4	556.9	522.0	200.6	100.9	79.7	74.7	76.0
17.5°	1012.9	995.4	959.3	907.0	821.0	779.9	261.6	98.4	74.7	72.3	74.7
20°	1319.3	1314.3	1254.5	1183.5	1077.6	1022.8	341.4	94.7	69.8	68.5	72.3
22.5°	1678.1	1656.9	1593.4	1517.4	1371.6	1299.4	427.3	89.7	64.8	64.8	69.8
25°	1958.4	1933.5	1883.7	1795.2	1656.9	1579.7	512.0	83.5	58.6	61.0	67.3
27.5°	2115.4	2086.7	2049.4	1973.4	1866.2	1797.7	596.7	76.0	52.3	57.3	64.8
30°	2185.2	2177.7	2150.3	2094.2	1995.8	1934.8	684.0	67.3	46.1	53.6	63.5
32.5°	2192.6	2196.4	2185.2	2149.0	2074.3	2022.0	748.7	59.8	41.1	51.1	61.0
35°	2147.8	2161.5	2169.0	2154.0	2105.4	2063.1	777.4	51.1	36.1	48.6	59.8
37.5°	2078.0	2102.9	2127.9	2131.6	2101.7	2074.3	769.9	43.6	33.6	47.3	59.8
40°	1993.3	2015.7	2066.8	2099.2	2089.2	2069.3	733.8	36.1	31.1	44.8	58.6
42.5°	1954.7	1959.7	2014.5	2069.3	2066.8	2050.6	670.3	28.7	28.7	44.8	58.6
45°	1967.1	1944.7	1980.9	2044.4	2040.7	2019.5	560.6	22.4	27.4	43.6	58.6
47.5°	1914.8	1883.7	1944.7	2019.5	2005.8	1974.6	463.4	16.2	26.2	42.4	57.3
50°	1863.7	1858.8	1906.1	1943.5	1924.8	1907.3	336.4	12.5	24.9	41.1	57.3
52.5°	1867.5	1858.8	1863.7	1862.5	1825.1	1806.4	230.5	10.0	23.7	39.9	57.3
55°	1731.7	1704.3	1678.1	1685.6	1688.1	1675.6	130.8	8.7	22.4	39.9	56.1
57.5°	1258.3	1250.8	1279.5	1360.4	1424.0	1431.4	63.5	8.7	21.2	38.6	54.8
60°	1066.4	1061.4	1062.7	1086.4	1120.0	1098.8	26.2	8.7	19.9	37.4	53.6
62.5°	735.0	783.6	803.6	858.4	835.9	806.0	10.0	10.0	18.7	34.9	52.3
65°	294.0	292.8	320.2	346.3	338.9	316.4	7.5	8.7	16.2	32.4	48.6
67.5°	68.5	62.3	53.6	46.1	38.6	31.1	7.5	8.7	14.9	29.9	46.1
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	38.6
75°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	6.2	8.7	19.9	33.6
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	22.4
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°	90.9	90.9
2.5°	86.0	86.0
5°	83.5	82.2
7.5°	81.0	81.0
10°	79.7	79.7
12.5°	78.5	79.7
15°	78.5	78.5
17.5°	76.0	77.2
20°	74.7	76.0
22.5°	73.5	74.7
25°	72.3	73.5
27.5°	71.0	72.3
30°	69.8	72.3
32.5°	68.5	71.0
35°	68.5	71.0
37.5°	68.5	72.3
40°	68.5	72.3
42.5°	68.5	72.3
45°	68.5	72.3
47.5°	68.5	72.3
50°	68.5	73.5
52.5°	68.5	73.5
55°	68.5	72.3
57.5°	67.3	72.3
60°	67.3	71.0
62.5°	66.0	69.8
65°	63.5	67.3
67.5°	61.0	66.0
70°	57.3	62.3
72.5°	53.6	57.3
75°	48.6	52.3
77.5°	42.4	44.8
80°	33.6	37.4
82.5°	26.2	28.7
85°	17.4	18.7
87.5°	7.5	8.7
90°	0.0	0.0

(END OF REPORT)