

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: P1315019

Luminaire Tested: LDSQA3D20R609730D010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R609730D010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 3000K CCT AND, 97CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

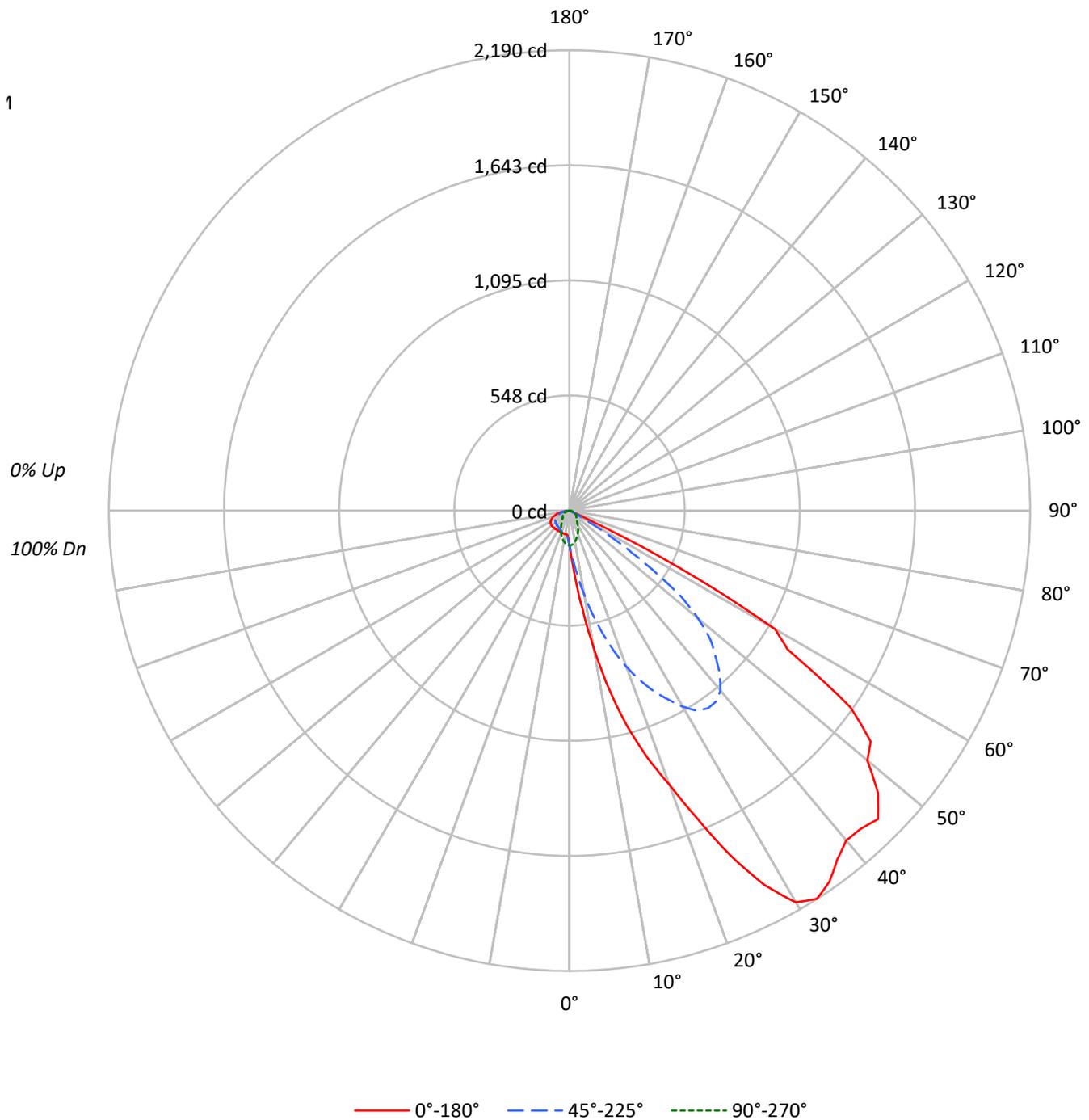
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1667.0 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	31	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	27	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	28451	28451	28451	28451	28451
5°	56065	43756	28024	21212	20175
10°	115805	71281	26232	19342	19604
15°	189388	106997	23500	19452	19987
20°	254111	144971	21113	19446	20270
25°	343815	179974	18433	19288	21017
30°	427919	214258	15372	19290	21995
35°	453036	241487	13056	19763	22938
40°	460253	251080	11915	20436	24865
45°	505264	239151	11447	21774	26938
50°	495324	214371	11360	23149	29633
55°	489576	131484	11380	25012	32758
60°	388328	31310	12021	26626	35478
65°	24695	5542	11736	27181	38306
70°	5338	6093	11430	28249	40435
75°	5057	6055	10114	27216	41322
80°	4463	6050	10513	27076	39077
85°	2964	5928	12054	23910	38928

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 533307 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.6	1.2
10°-20°	103.9	6.2
20°-30°	241.1	14.5
30°-40°	374.7	22.5
40°-50°	427.0	25.6
50°-60°	359.6	21.6
60°-70°	104.3	6.3
70°-80°	26.7	1.6
80°-90°	9.0	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°	365.6	21.9
0°-40°	740.3	44.4
0°-60°	1526.9	91.6
0°-90°	1667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1667.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	165	165	165	165	165	
5°	324	253	162	123	117	42
15°	1062	600	132	109	112	307
25°	1809	947	97	102	111	840
35°	2155	1149	62	94	109	1339
45°	2074	982	47	89	111	1559
55°	1630	438	38	83	109	1372
65°	61	14	29	67	94	300
75°	8	9	15	41	62	8
85°	2	3	6	12	20	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2	165.2
2.5°	222.8	221.2	221.2	219.7	218.2	216.7	212.1	210.6	201.5	183.4	165.2
5°	324.3	322.8	318.2	316.7	309.1	298.5	287.9	277.3	253.1	201.5	162.1
7.5°	469.8	472.8	469.8	453.1	442.5	425.8	394.0	371.3	322.8	219.7	156.1
10°	662.2	662.2	657.7	631.9	609.2	577.3	536.4	497.0	407.6	236.4	150.0
12.5°	871.3	875.9	853.1	831.9	791.0	751.6	695.5	636.4	504.6	250.0	142.4
15°	1062.2	1059.2	1036.5	1009.2	966.8	912.2	853.1	777.4	600.1	259.1	131.8
17.5°	1232.0	1225.9	1206.2	1175.9	1124.4	1063.8	988.0	906.2	698.6	266.7	124.3
20°	1386.5	1365.3	1342.6	1310.8	1260.8	1197.1	1118.3	1025.9	791.0	266.7	115.2
22.5°	1582.0	1560.8	1529.0	1480.5	1413.8	1335.0	1242.6	1138.0	872.8	260.6	106.1
25°	1809.3	1792.6	1738.1	1675.9	1589.6	1495.6	1388.0	1247.1	947.1	251.5	97.0
27.5°	2007.8	1989.6	1935.1	1844.2	1739.6	1627.5	1513.8	1369.9	1012.2	234.9	86.4
30°	2151.8	2129.0	2086.6	2000.2	1872.9	1736.6	1601.7	1463.8	1077.4	215.2	77.3
32.5°	2189.6	2186.6	2154.8	2091.1	1977.5	1827.5	1666.9	1516.8	1128.9	189.4	69.7
35°	2154.8	2159.3	2153.3	2121.5	2038.1	1891.1	1709.3	1545.6	1148.6	163.7	62.1
37.5°	2091.1	2097.2	2107.8	2112.4	2059.3	1929.0	1733.5	1557.8	1144.1	137.9	57.6
40°	2047.2	2044.2	2044.2	2074.5	2063.9	1945.7	1736.6	1548.7	1116.8	110.6	53.0
42.5°	2051.8	2018.4	1995.7	2044.2	2059.3	1938.1	1716.9	1524.4	1057.7	84.9	48.5
45°	2074.5	2003.3	1963.9	2026.0	2050.2	1912.3	1680.5	1488.0	981.9	59.1	47.0
47.5°	1989.6	1942.6	1936.6	2024.5	2033.6	1868.4	1624.4	1430.5	909.2	40.9	43.9
50°	1848.7	1841.1	1872.9	1963.9	1965.4	1795.7	1560.8	1325.9	800.1	28.8	42.4
52.5°	1804.8	1809.3	1838.1	1885.1	1841.1	1672.9	1445.6	1238.0	662.2	22.7	40.9
55°	1630.5	1638.1	1665.3	1694.1	1662.3	1522.9	1306.2	1131.9	437.9	21.2	37.9
57.5°	1227.4	1247.1	1297.1	1322.9	1325.9	1241.1	1183.5	975.9	247.0	21.2	36.4
60°	1127.4	1101.6	1078.9	1025.9	977.4	966.8	972.8	731.9	90.9	19.7	34.9
62.5°	589.5	577.3	612.2	634.9	641.0	674.3	630.4	386.4	19.7	19.7	31.8
65°	60.6	60.6	74.3	98.5	163.7	218.2	207.6	112.1	13.6	18.2	28.8
67.5°	18.2	18.2	18.2	21.2	27.3	27.3	22.7	16.7	13.6	16.7	25.8
70°	10.6	10.6	10.6	10.6	10.6	10.6	12.1	10.6	12.1	15.2	22.7
72.5°	9.1	9.1	9.1	9.1	10.6	10.6	10.6	10.6	10.6	13.6	19.7
75°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.1	9.1	10.6	15.2
77.5°	6.1	6.1	6.1	6.1	6.1	6.1	7.6	7.6	7.6	9.1	12.1
80°	4.5	4.5	4.5	4.5	4.5	6.1	6.1	6.1	6.1	7.6	10.6
82.5°	3.0	3.0	3.0	3.0	4.5	4.5	4.5	4.5	4.5	6.1	7.6
85°	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	6.1
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	4.5
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):

	112.5°	135°	157.5°	180°
0°	165.2	165.2	165.2	165.2
2.5°	150.0	139.4	133.3	130.3
5°	136.4	122.7	118.2	116.7
7.5°	124.3	115.2	113.6	113.6
10°	116.7	110.6	112.1	112.1
12.5°	112.1	110.6	112.1	113.6
15°	107.6	109.1	112.1	112.1
17.5°	104.6	107.6	110.6	112.1
20°	100.0	106.1	110.6	110.6
22.5°	97.0	104.6	109.1	110.6
25°	94.0	101.5	107.6	110.6
27.5°	89.4	100.0	107.6	109.1
30°	84.9	97.0	106.1	110.6
32.5°	80.3	95.5	106.1	109.1
35°	77.3	94.0	106.1	109.1
37.5°	74.3	92.4	106.1	110.6
40°	72.7	90.9	104.6	110.6
42.5°	69.7	90.9	104.6	110.6
45°	68.2	89.4	104.6	110.6
47.5°	66.7	87.9	104.6	110.6
50°	63.6	86.4	103.0	110.6
52.5°	62.1	84.9	103.0	110.6
55°	59.1	83.3	101.5	109.1
57.5°	57.6	80.3	100.0	106.1
60°	54.6	77.3	97.0	103.0
62.5°	50.0	72.7	92.4	100.0
65°	45.5	66.7	87.9	94.0
67.5°	40.9	62.1	81.8	87.9
70°	36.4	56.1	74.3	80.3
72.5°	31.8	48.5	66.7	71.2
75°	27.3	40.9	56.1	62.1
77.5°	21.2	33.3	47.0	51.5
80°	16.7	27.3	36.4	39.4
82.5°	13.6	19.7	27.3	28.8
85°	9.1	12.1	16.7	19.7
87.5°	4.5	6.1	7.6	9.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)