

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: P1315832

Luminaire Tested: LDSQA3D17R609735DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315832
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: LDSQA3D17R609735DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

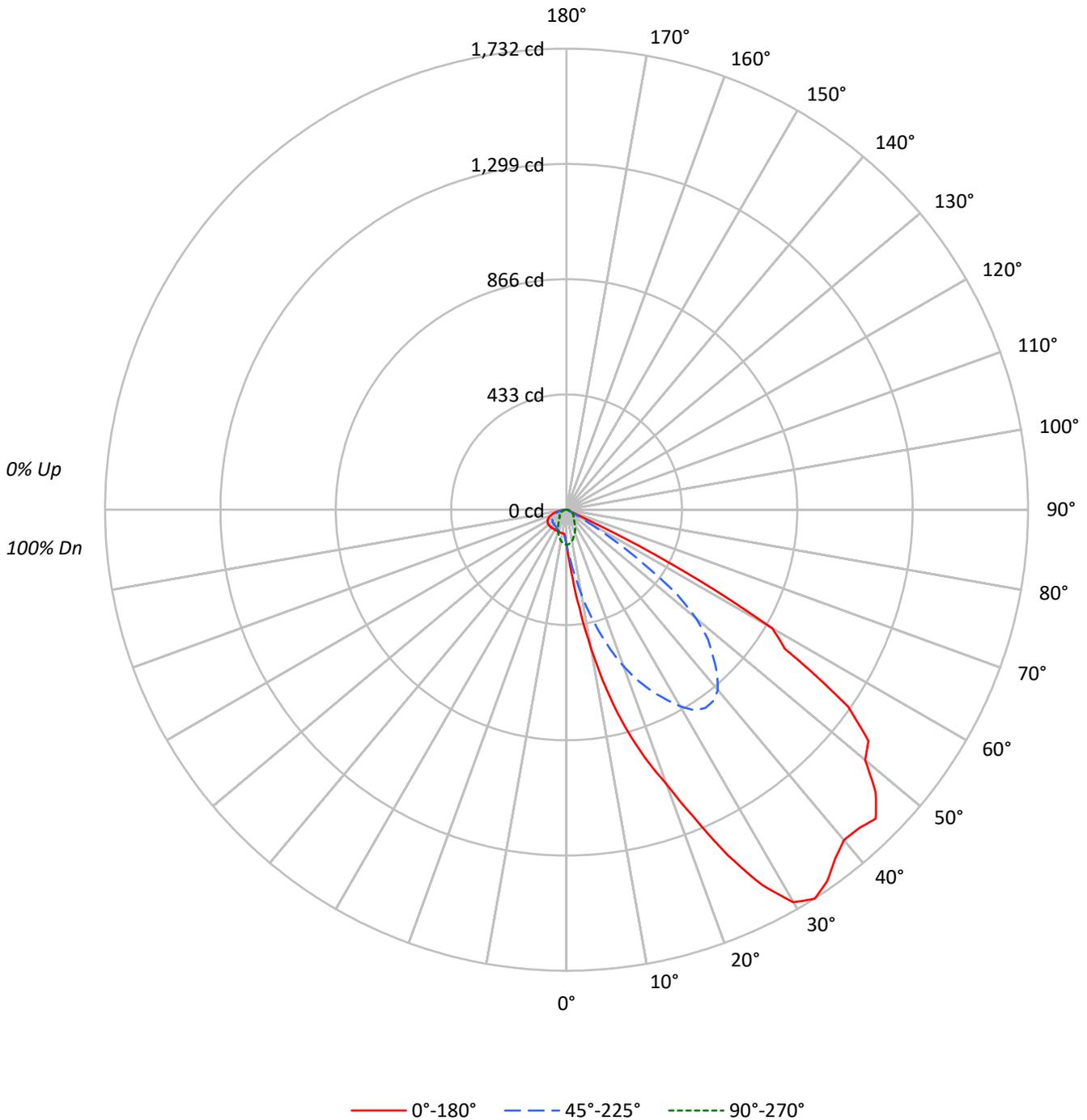
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1319.0 lumens
Efficiency: N/A
Efficacy: 62.2 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): 21.2
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°	22509	22509	22509	22509	22509
5°	44361	34611	22181	16787	15957
10°	91637	56399	20758	15302	15512
15°	149859	84656	18596	15387	15815
20°	201072	114712	16696	15377	16037
25°	272042	142406	14575	15259	16627
30°	338589	169533	12151	15253	17401
35°	358468	191071	10344	15621	18144
40°	364165	198674	9442	16165	19672
45°	399779	189221	9060	17220	21311
50°	391929	169627	9002	18300	23444
55°	387367	104040	9008	19787	25913
60°	307245	24766	9507	21046	28072
65°	19561	4401	9291	21517	30278
70°	4230	4834	9064	22357	31975
75°	3993	4791	7985	21560	32739
80°	3570	4761	8331	21423	30944
85°	2371	4742	9485	18970	30826

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 421955 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.3	1.2
10°-20°	82.2	6.2
20°-30°	190.7	14.5
30°-40°	296.5	22.5
40°-50°	337.8	25.6
50°-60°	284.5	21.6
60°-70°	82.6	6.3
70°-80°	21.2	1.6
80°-90°	7.2	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°	289.3	21.9
0°-40°	585.7	44.4
0°-60°	1208.1	91.6
0°-90°	1319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1319.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	131	131	131	131	131	
5°	257	200	128	97	92	33
15°	840	475	104	86	89	243
25°	1432	749	77	80	88	665
35°	1705	909	49	74	86	1059
45°	1641	777	37	71	88	1234
55°	1290	346	30	66	86	1086
65°	48	11	23	53	74	237
75°	6	7	12	32	49	6
85°	1	2	5	10	16	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°	130.7	130.7	130.7	130.7	130.7	130.7	130.7	130.7	130.7	130.7	130.7
2.5°	176.3	175.1	175.1	173.9	172.7	171.5	167.9	166.7	159.5	145.1	130.7
5°	256.6	255.4	251.8	250.6	244.6	236.2	227.8	219.4	200.2	159.5	128.3
7.5°	371.7	374.1	371.7	358.5	350.1	336.9	311.7	293.8	255.4	173.9	123.5
10°	524.0	524.0	520.4	500.0	482.0	456.8	424.4	393.3	322.5	187.0	118.7
12.5°	689.4	693.0	675.0	658.2	625.9	594.7	550.3	503.6	399.3	197.8	112.7
15°	840.5	838.1	820.1	798.5	765.0	721.8	675.0	615.1	474.8	205.0	104.3
17.5°	974.8	970.0	954.4	930.4	889.6	841.7	781.7	717.0	552.7	211.0	98.3
20°	1097.1	1080.3	1062.3	1037.1	997.6	947.2	884.9	811.7	625.9	211.0	91.1
22.5°	1251.7	1235.0	1209.8	1171.4	1118.7	1056.3	983.2	900.4	690.6	206.2	83.9
25°	1431.6	1418.4	1375.2	1326.1	1257.7	1183.4	1098.3	986.8	749.4	199.0	76.7
27.5°	1588.7	1574.3	1531.1	1459.2	1376.4	1287.7	1197.8	1083.9	800.9	185.8	68.3
30°	1702.6	1684.6	1651.0	1582.7	1481.9	1374.0	1267.3	1158.2	852.5	170.3	61.1
32.5°	1732.5	1730.1	1705.0	1654.6	1564.7	1446.0	1318.9	1200.2	893.2	149.9	55.2
35°	1705.0	1708.6	1703.8	1678.6	1612.6	1496.3	1352.5	1223.0	908.8	129.5	49.2
37.5°	1654.6	1659.4	1667.8	1671.4	1629.4	1526.3	1371.6	1232.6	905.2	109.1	45.6
40°	1619.8	1617.4	1617.4	1641.4	1633.0	1539.5	1374.0	1225.4	883.7	87.5	42.0
42.5°	1623.4	1597.1	1579.1	1617.4	1629.4	1533.5	1358.5	1206.2	836.9	67.1	38.4
45°	1641.4	1585.1	1553.9	1603.0	1622.2	1513.1	1329.7	1177.4	776.9	46.8	37.2
47.5°	1574.3	1537.1	1532.3	1601.8	1609.0	1478.4	1285.3	1131.8	719.4	32.4	34.8
50°	1462.8	1456.8	1481.9	1553.9	1555.1	1420.8	1235.0	1049.1	633.1	22.8	33.6
52.5°	1428.0	1431.6	1454.4	1491.5	1456.8	1323.7	1143.8	979.6	524.0	18.0	32.4
55°	1290.1	1296.1	1317.7	1340.5	1315.3	1205.0	1033.5	895.6	346.5	16.8	30.0
57.5°	971.2	986.8	1026.3	1046.7	1049.1	982.0	936.4	772.1	195.4	16.8	28.8
60°	892.0	871.7	853.7	811.7	773.3	765.0	769.8	579.1	71.9	15.6	27.6
62.5°	466.4	456.8	484.4	502.4	507.2	533.5	498.8	305.7	15.6	15.6	25.2
65°	48.0	48.0	58.8	77.9	129.5	172.7	164.3	88.7	10.8	14.4	22.8
67.5°	14.4	14.4	14.4	16.8	21.6	21.6	18.0	13.2	10.8	13.2	20.4
70°	8.4	8.4	8.4	8.4	8.4	8.4	9.6	8.4	9.6	12.0	18.0
72.5°	7.2	7.2	7.2	7.2	8.4	8.4	8.4	8.4	8.4	10.8	15.6
75°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.2	7.2	8.4	12.0
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	6.0	6.0	6.0	7.2	9.6
80°	3.6	3.6	3.6	3.6	3.6	4.8	4.8	4.8	4.8	6.0	8.4
82.5°	2.4	2.4	2.4	2.4	3.6	3.6	3.6	3.6	3.6	4.8	6.0
85°	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	4.8
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.6
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°	130.7	130.7	130.7	130.7
2.5°	118.7	110.3	105.5	103.1
5°	107.9	97.1	93.5	92.3
7.5°	98.3	91.1	89.9	89.9
10°	92.3	87.5	88.7	88.7
12.5°	88.7	87.5	88.7	89.9
15°	85.1	86.3	88.7	88.7
17.5°	82.7	85.1	87.5	88.7
20°	79.1	83.9	87.5	87.5
22.5°	76.7	82.7	86.3	87.5
25°	74.3	80.3	85.1	87.5
27.5°	70.7	79.1	85.1	86.3
30°	67.1	76.7	83.9	87.5
32.5°	63.5	75.5	83.9	86.3
35°	61.1	74.3	83.9	86.3
37.5°	58.8	73.1	83.9	87.5
40°	57.6	71.9	82.7	87.5
42.5°	55.2	71.9	82.7	87.5
45°	54.0	70.7	82.7	87.5
47.5°	52.8	69.5	82.7	87.5
50°	50.4	68.3	81.5	87.5
52.5°	49.2	67.1	81.5	87.5
55°	46.8	65.9	80.3	86.3
57.5°	45.6	63.5	79.1	83.9
60°	43.2	61.1	76.7	81.5
62.5°	39.6	57.6	73.1	79.1
65°	36.0	52.8	69.5	74.3
67.5°	32.4	49.2	64.7	69.5
70°	28.8	44.4	58.8	63.5
72.5°	25.2	38.4	52.8	56.4
75°	21.6	32.4	44.4	49.2
77.5°	16.8	26.4	37.2	40.8
80°	13.2	21.6	28.8	31.2
82.5°	10.8	15.6	21.6	22.8
85°	7.2	9.6	13.2	15.6
87.5°	3.6	4.8	6.0	7.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)