

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: CORELITE

Report Number: P845600

Luminaire Tested: SQ2R-PP3-075D-940-UNV-STD-W-4

Issue Date: 6/14/2024

Test Information

Test Method: LM-79-2019
Report Number: P845600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2308-131-7)
Test Lab: INNOVATION CENTER
Issue Date: 6/14/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ2R-PP3-075D-940-UNV-STD-W-4
Description: CORELITE SQ2R RECESSED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

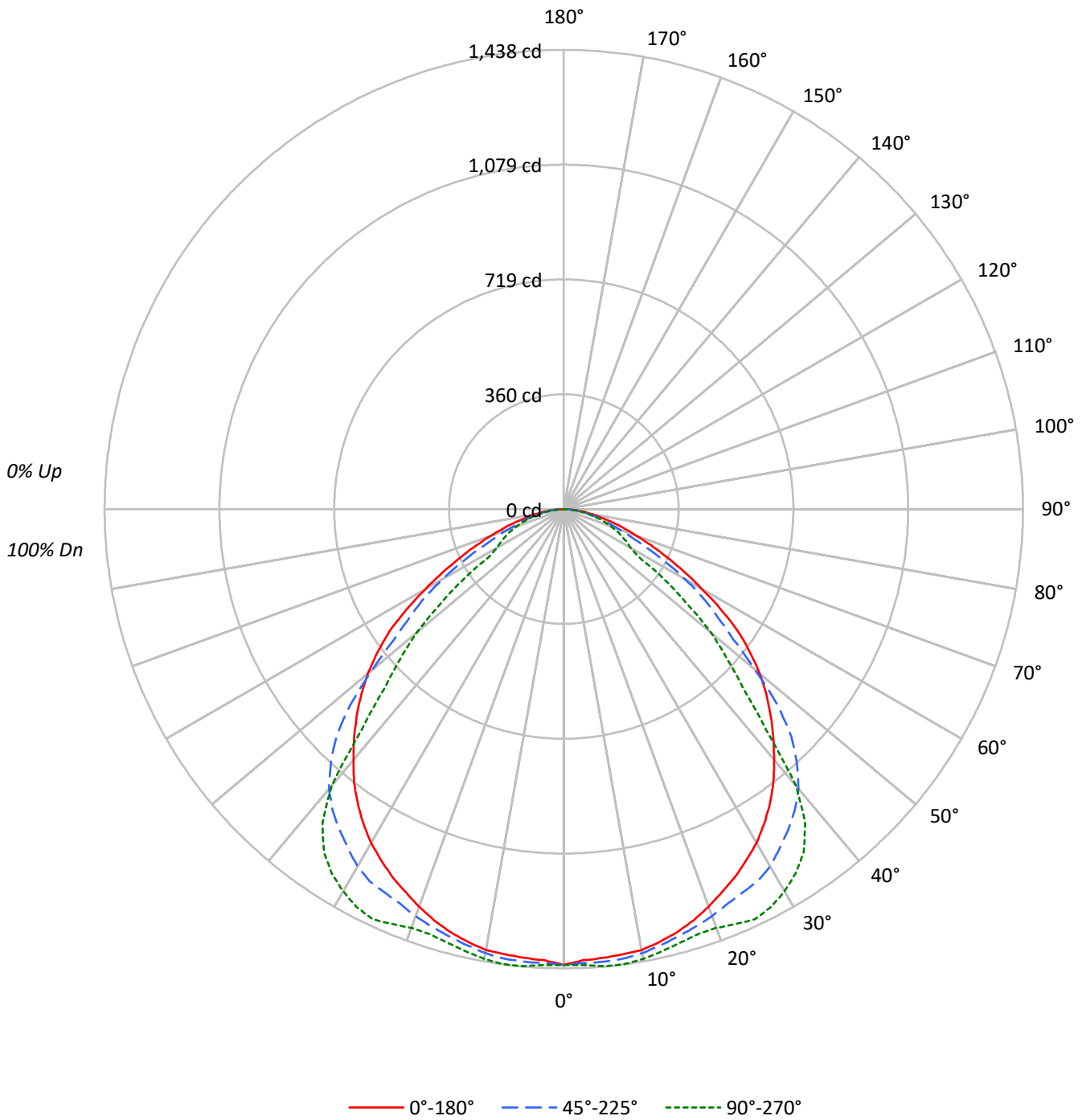
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3595.1 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.41 / 1.4
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 26.7
Input Voltage (V): 120
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

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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	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	89	87
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	61	57	55
5	79	67	59	52	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	52	46	71	60	52	46	58	51	46	56	50	45	55	49	45	43
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38
8	63	50	42	37	62	50	42	37	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23043	23043	23043
5°	22864	23058	23279
10°	22979	23153	23450
15°	22924	23151	23504
20°	22761	23304	23979
25°	22630	23599	25238
30°	22503	24078	25765
35°	22184	24147	25813
40°	21591	24104	23849
45°	20945	23012	18155
50°	20122	19630	15121
55°	18728	16521	10871
60°	16126	14176	7795
65°	13605	10953	7668
70°	11325	8620	7336
75°	9601	7436	6868
80°	8136	6453	6174
85°	6428	5317	3353

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 23012 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	3.8
10°-20°	393.4	10.9
20°-30°	616.6	17.2
30°-40°	761.3	21.2
40°-50°	716.7	19.9
50°-60°	506.7	14.1
60°-70°	287.9	8.0
70°-80°	142.6	4.0
80°-90°	34.0	0.9
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°	1145.9	31.9
0°-40°	1907.3	53.1
0°-60°	3130.7	87.1
0°-90°	3595.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3595.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1427	1427	1427	1427	1427	
5°	1411	1436	1423	1426	1436	134
15°	1371	1391	1385	1399	1406	387
25°	1270	1304	1325	1378	1417	585
35°	1126	1157	1225	1294	1310	703
45°	917	988	1008	855	795	707
55°	665	706	587	444	386	588
65°	356	376	287	202	201	357
75°	154	170	119	112	110	166
85°	35	32	29	23	18	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.2	1427.2	1427.2	1427.2	1427.2
2.5°	1413.7	1439.3	1422.7	1425.7	1428.8
5°	1410.7	1436.3	1422.7	1425.7	1436.3
7.5°	1406.1	1433.3	1419.7	1424.2	1437.8
10°	1401.6	1424.2	1412.2	1419.7	1430.3
12.5°	1388.0	1409.1	1398.6	1409.1	1418.2
15°	1371.4	1391.0	1385.0	1398.6	1406.1
17.5°	1350.3	1372.9	1371.4	1389.5	1395.6
20°	1324.7	1353.3	1356.3	1380.5	1395.6
22.5°	1297.5	1332.2	1338.2	1377.5	1406.1
25°	1270.3	1303.5	1324.7	1377.5	1416.7
27.5°	1238.7	1271.9	1314.1	1372.9	1404.6
30°	1207.0	1238.7	1291.5	1353.3	1382.0
32.5°	1167.7	1200.9	1258.3	1326.2	1351.8
35°	1125.5	1157.2	1225.1	1294.5	1309.6
37.5°	1078.7	1111.9	1188.9	1235.6	1241.7
40°	1024.4	1071.2	1143.6	1151.2	1131.5
42.5°	971.6	1035.0	1080.2	1041.0	936.9
45°	917.3	988.2	1007.8	855.4	795.1
47.5°	860.0	930.9	908.2	736.3	694.0
50°	801.1	867.5	781.5	641.2	602.0
52.5°	734.7	792.1	668.4	550.7	485.8
55°	665.3	706.1	586.9	443.6	386.2
57.5°	582.4	612.5	517.5	348.5	276.1
60°	499.4	522.0	439.0	273.1	241.4
62.5°	424.0	443.6	357.6	227.8	221.8
65°	356.1	375.7	286.7	202.2	200.7
67.5°	294.2	315.3	229.3	181.0	179.5
70°	239.9	262.5	182.6	158.4	155.4
72.5°	194.6	215.7	147.9	134.3	132.8
75°	153.9	170.5	119.2	111.6	110.1
77.5°	117.7	129.7	93.5	89.0	87.5
80°	87.5	92.0	69.4	67.9	66.4
82.5°	60.3	57.3	48.3	46.8	43.8
85°	34.7	31.7	28.7	22.6	18.1
87.5°	13.6	13.6	6.0	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	22.35	23.87	22.71	24.18	24.50	18.75	20.27	19.12	20.59	20.90
	3H	23.49	24.85	23.87	25.18	25.54	19.90	21.26	20.28	21.59	21.95
	4H	23.87	25.14	24.27	25.49	25.87	20.39	21.67	20.79	22.02	22.40
	6H	24.11	25.29	24.52	25.66	26.05	20.77	21.95	21.18	22.31	22.71
	8H	24.18	25.30	24.61	25.69	26.09	20.87	21.99	21.30	22.38	22.78
	12H	24.21	25.28	24.64	25.67	26.10	20.91	21.98	21.34	22.36	22.79
4H	2H	22.54	23.81	22.94	24.16	24.54	19.54	20.82	19.94	21.17	21.54
	3H	23.90	24.96	24.32	25.36	25.76	20.85	21.90	21.26	22.30	22.70
	4H	24.40	25.35	24.84	25.77	26.20	21.43	22.37	21.86	22.79	23.23
	6H	24.78	25.60	25.23	26.04	26.50	21.90	22.72	22.36	23.17	23.63
	8H	24.88	25.65	25.34	26.09	26.56	22.03	22.80	22.50	23.25	23.71
	12H	24.94	25.63	25.43	26.11	26.58	22.09	22.78	22.57	23.26	23.73
8H	4H	24.47	25.24	24.93	25.68	26.15	21.75	22.51	22.21	22.96	23.43
	6H	24.92	25.56	25.42	26.05	26.52	22.31	22.95	22.81	23.44	23.92
	8H	25.08	25.65	25.59	26.16	26.65	22.50	23.07	23.01	23.58	24.07
	12H	25.19	25.70	25.70	26.19	26.75	22.60	23.11	23.11	23.60	24.16
12H	4H	24.46	25.14	24.94	25.62	26.09	21.78	22.47	22.27	22.95	23.42
	6H	24.91	25.48	25.42	25.99	26.48	22.37	22.94	22.88	23.45	23.94
	8H	25.11	25.61	25.62	26.11	26.67	22.60	23.11	23.11	23.60	24.16