

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

(formerly Eaton)

Brand: CORELITE

Report Number: P562729

Luminaire Tested: **SQ4-PC3-075U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562729
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-075D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17864.5 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

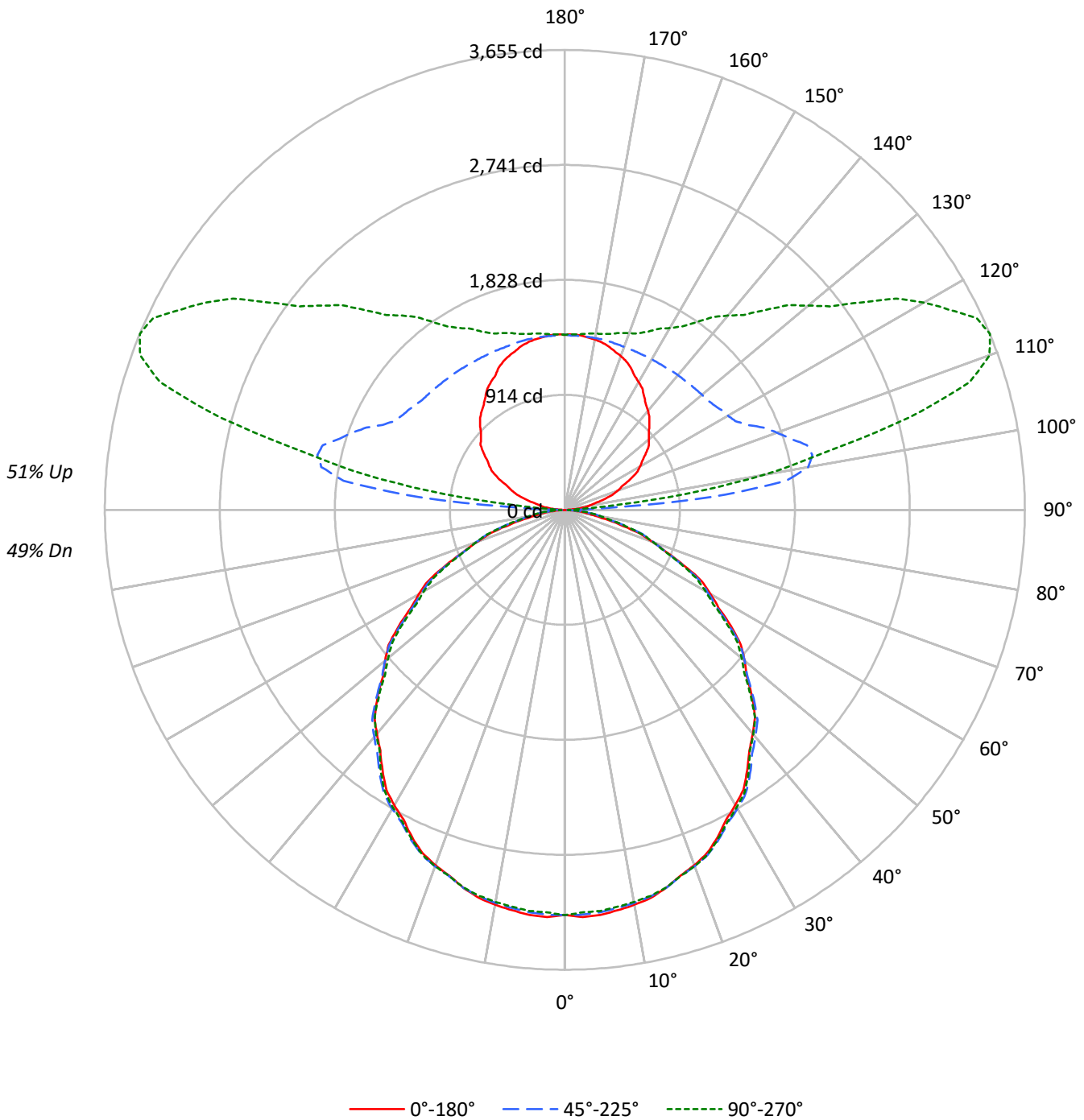
Input Watts (W): 133.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	55	55	55	49				49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47				42	
2	89	82	75	70	82	75	70	66	64	60	56	53	50	48	43	41	40				35	
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34				29	
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29				25	
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25				22	
6	63	51	42	37	58	47	40	34	40	34	30	34	29	26	28	25	22				19	
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20				17	
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18				15	
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16				14	
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14				12	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9904	9904	9904
5°	9979	9914	9878
10°	9954	9908	9880
15°	9902	9902	9893
20°	9837	9866	9866
25°	9744	9815	9785
30°	9625	9742	9700
35°	9482	9628	9561
40°	9326	9457	9361
45°	9156	9221	9078
50°	8917	8917	8774
55°	8634	8522	8394
60°	8217	8052	7923
65°	7595	7443	7377
70°	6649	6703	6676
75°	5351	5917	5953
80°	3802	5017	5071
85°	2315	4210	4210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	1.7
10°-20°	874.6	4.9
20°-30°	1324.5	7.4
30°-40°	1587.9	8.9
40°-50°	1619.1	9.1
50°-60°	1413.4	7.9
60°-70°	1011.9	5.7
70°-80°	521.2	2.9
80°-90°	135.3	0.8
90°-100°	656.8	3.7
100°-110°	1807.0	10.1
110°-120°	1865.1	10.4
120°-130°	1494.3	8.4
130°-140°	1173.7	6.6
140°-150°	899.4	5.0
150°-160°	646.7	3.6
160°-170°	395.4	2.2
170°-180°	133.3	0.7
0°-30°	2503.9	14.0
0°-40°	4091.8	22.9
0°-60°	7124.4	39.9
0°-90°	8792.8	49.2
90°-120°	4328.8	24.2
90°-150°	7896.3	44.2
90°-180°	9072.0	50.8
0°-180°	17864.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3220	3220	3220	3220	3220	
5°	3232	3200	3212	3202	3200	307
15°	3110	3084	3110	3110	3107	877
25°	2872	2851	2892	2884	2884	1322
35°	2526	2520	2564	2546	2546	1580
45°	2105	2099	2120	2093	2087	1621
55°	1610	1590	1589	1566	1566	1435
65°	1044	1020	1023	1014	1014	1032
75°	450	471	498	501	501	487
85°	66	101	119	122	119	89
90°	3	12	21	27	27	9
95°	98	358	1161	497	317	103
105°	323	497	1991	3032	2830	340
115°	572	696	1597	3180	3609	564
125°	788	898	1449	2451	2871	703
135°	951	1055	1407	1982	2243	734
145°	1099	1174	1387	1689	1819	689
155°	1244	1285	1378	1518	1561	572
165°	1345	1362	1384	1440	1449	379
175°	1392	1395	1387	1404	1401	132
180°	1392	1392	1392	1392	1392	

TEST NUMBER: P562729

CATALOG NUMBER: SQ4-PC3-075U-075D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3220.4	3220.4	3220.4	3220.4	3220.4
2.5°	3239.5	3211.5	3220.4	3213.0	3201.4
5°	3232.4	3200.3	3211.5	3202.5	3199.6
7.5°	3209.1	3177.0	3191.8	3185.8	3182.9
10°	3187.6	3155.6	3172.7	3166.7	3163.8
12.5°	3159.0	3129.3	3148.9	3142.9	3142.3
15°	3110.1	3083.9	3110.1	3110.0	3107.1
17.5°	3048.7	3024.8	3052.9	3054.6	3052.9
20°	3005.7	2979.5	3014.7	3011.8	3014.7
22.5°	2953.3	2931.7	2969.4	2961.7	2964.6
25°	2871.6	2851.2	2892.4	2883.5	2883.5
27.5°	2774.9	2760.4	2805.4	2795.8	2795.8
30°	2710.5	2696.0	2743.3	2731.4	2731.4
32.5°	2639.0	2629.1	2674.2	2659.8	2659.8
35°	2525.7	2519.8	2564.4	2546.5	2546.5
37.5°	2408.8	2403.5	2444.0	2422.3	2415.3
40°	2322.9	2320.0	2355.7	2331.8	2331.8
42.5°	2237.0	2234.1	2265.0	2236.4	2236.4
45°	2105.2	2099.4	2120.1	2093.2	2087.3
47.5°	1961.5	1955.7	1968.6	1939.4	1936.4
50°	1863.7	1857.9	1863.7	1836.8	1833.9
52.5°	1763.5	1753.0	1753.9	1727.1	1726.5
55°	1610.2	1589.8	1589.3	1565.5	1565.5
57.5°	1448.0	1421.2	1423.6	1403.2	1400.3
60°	1335.9	1306.7	1309.1	1291.1	1288.2
62.5°	1226.2	1192.3	1199.3	1179.0	1178.4
65°	1043.7	1020.3	1022.8	1013.8	1013.8
67.5°	868.3	846.8	862.4	855.2	854.6
70°	739.5	724.9	745.5	745.4	742.5
72.5°	620.2	619.7	645.3	645.3	647.1
75°	450.3	470.7	498.0	501.0	501.0
77.5°	300.6	336.7	366.8	368.0	367.4
80°	214.7	255.5	283.3	289.2	286.3
82.5°	145.5	188.7	211.7	217.6	214.7
85°	65.6	100.6	119.3	122.2	119.3
87.5°	19.7	42.4	51.9	52.9	48.3
90°	3.0	11.7	20.7	26.7	26.7
92.5°	40.9	174.7	302.8	116.3	95.4
95°	97.8	358.5	1161.4	496.6	317.0
97.5°	159.4	397.5	1772.4	1365.6	963.5
100°	204.4	421.7	1964.3	1982.7	1617.7
102.5°	247.1	450.5	2014.1	2459.8	2124.9
105°	322.9	496.8	1991.0	3032.3	2829.5
107.5°	395.2	554.0	1877.8	3312.6	3372.9
110°	447.4	592.2	1792.5	3382.3	3590.9

TEST NUMBER: P562729

CATALOG NUMBER: SQ4-PC3-075U-075D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	494.8	635.0	1707.2	3337.4	3654.9
115°	571.8	696.4	1597.0	3180.0	3608.7
117.5°	645.3	760.0	1527.0	2959.0	3444.0
120°	690.3	800.4	1496.2	2793.5	3294.6
122.5°	730.6	840.7	1474.9	2648.3	3124.0
125°	788.1	898.2	1448.8	2450.9	2871.0
127.5°	842.6	947.5	1431.6	2286.2	2654.7
130°	871.1	978.3	1422.2	2188.3	2524.3
132.5°	904.3	1011.4	1415.0	2102.2	2405.8
135°	951.1	1055.4	1407.3	1982.1	2242.8
137.5°	994.9	1091.7	1400.8	1885.1	2100.0
140°	1028.1	1117.9	1398.4	1820.6	2014.7
142.5°	1056.5	1139.4	1393.7	1763.1	1929.4
145°	1099.2	1174.5	1386.6	1688.8	1819.2
147.5°	1144.8	1209.7	1383.0	1623.0	1727.3
150°	1173.3	1231.2	1380.7	1586.9	1668.1
152.5°	1199.3	1252.7	1378.3	1555.8	1623.0
155°	1244.4	1284.9	1377.7	1517.9	1561.4
157.5°	1277.0	1310.0	1377.7	1486.8	1517.0
160°	1300.7	1326.7	1377.7	1470.1	1493.3
162.5°	1319.6	1341.1	1380.1	1455.8	1474.3
165°	1345.1	1362.5	1383.6	1440.1	1448.8
167.5°	1362.9	1376.2	1386.6	1426.9	1429.3
170°	1374.7	1383.4	1386.6	1422.2	1422.2
172.5°	1384.2	1388.3	1386.6	1415.0	1412.7
175°	1392.5	1395.4	1386.6	1404.3	1401.4
177.5°	1394.9	1394.9	1385.4	1399.5	1394.9
180°	1392.5	1392.5	1392.5	1392.5	1392.5

(END OF REPORT)