

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: P563313

Luminaire Tested: **SQ4-PP3-050U-075D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563313
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-075D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

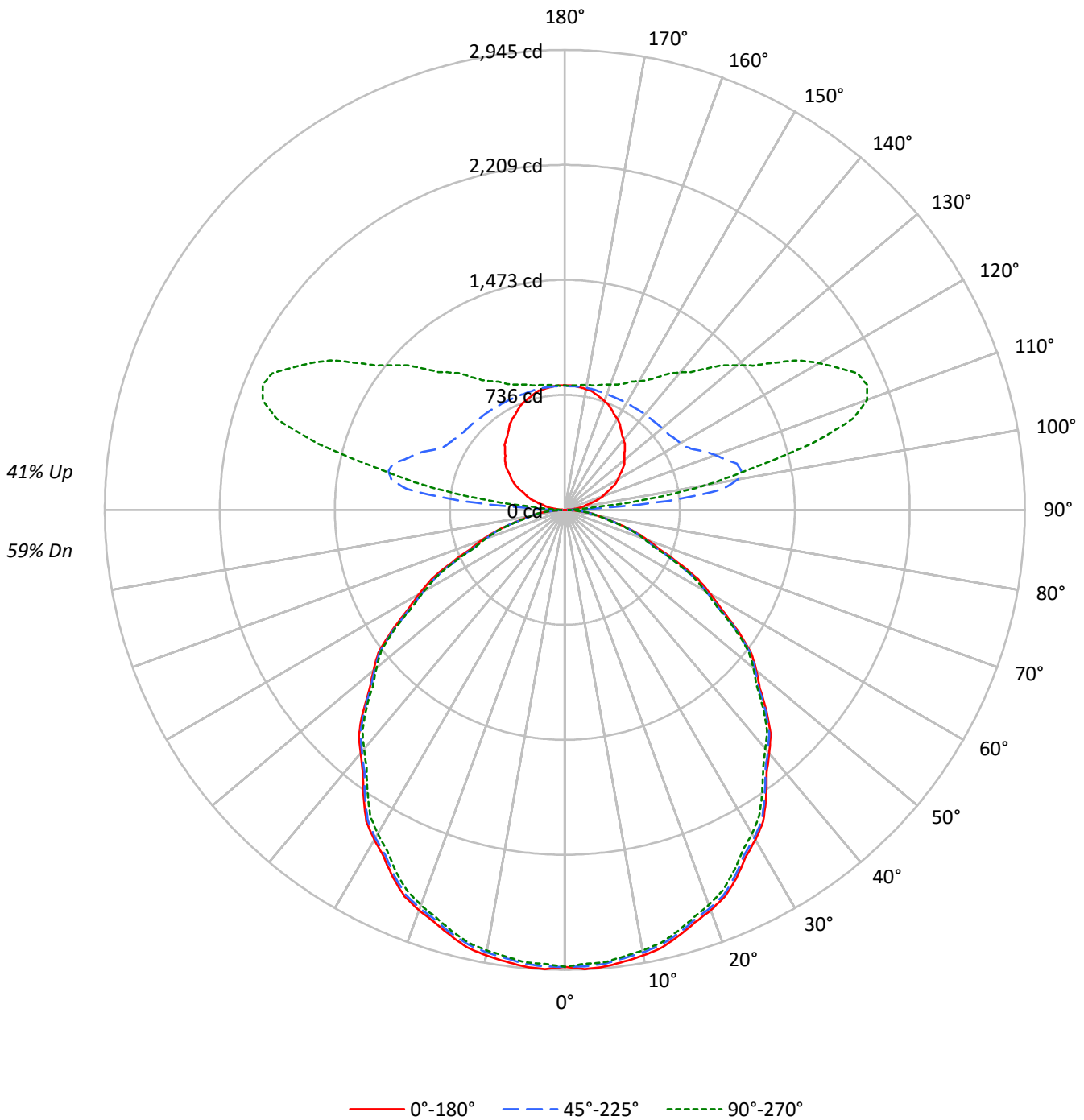
Lumens per Lamp: N/A
Luminaire Lumens: 12684.6 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 105.6
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59				
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50				
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42				
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36				
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31				
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27				
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24				
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21				
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19				
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17				
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8986	8946
15°	8990	8941	8892
20°	8930	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8434	8376	8271
40°	8165	8113	8020
45°	7941	7886	7808
50°	7657	7607	7534
55°	7260	7164	7109
60°	6609	6420	6388
65°	5822	5580	5561
70°	5027	4820	4820
75°	4328	4266	4205
80°	3815	3861	3771
85°	2985	3257	3257



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	2.2
10°-20°	790.1	6.2
20°-30°	1183.4	9.3
30°-40°	1388.0	10.9
40°-50°	1392.4	11.0
50°-60°	1187.8	9.4
60°-70°	774.7	6.1
70°-80°	388.6	3.1
80°-90°	110.6	0.9
90°-100°	381.7	3.0
100°-110°	1037.0	8.2
110°-120°	1066.3	8.4
120°-130°	852.5	6.7
130°-140°	669.8	5.3
140°-150°	513.6	4.0
150°-160°	369.4	2.9
160°-170°	225.9	1.8
170°-180°	76.1	0.6
0°-30°	2250.1	17.7
0°-40°	3638.2	28.7
0°-60°	6218.4	49.0
0°-90°	7492.3	59.1
90°-120°	2485.0	19.6
90°-150°	4521.0	35.6
90°-180°	5192.0	40.9
0°-180°	12684.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2926	2926	2926	2926	2926	
5°	2936	2909	2918	2908	2908	279
15°	2824	2796	2808	2798	2793	797
25°	2600	2570	2582	2559	2557	1196
35°	2246	2224	2231	2205	2203	1403
45°	1826	1813	1813	1795	1795	1406
55°	1354	1349	1336	1328	1326	1203
65°	800	785	767	762	764	799
75°	364	364	359	356	354	395
85°	85	92	92	92	92	99
90°	3	10	18	23	23	7
95°	56	209	665	289	194	60
105°	184	287	1140	1736	1634	196
115°	327	397	913	1816	2069	323
125°	450	512	826	1392	1642	401
135°	542	602	803	1134	1278	419
145°	626	672	793	963	1036	393
155°	708	733	788	865	890	327
165°	767	777	790	823	826	217
175°	795	798	793	803	800	76
180°	795	795	795	795	795	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2926.1	2926.1	2926.1	2926.1	2926.1
2.5°	2944.6	2920.5	2926.1	2921.7	2909.7
5°	2936.4	2908.8	2918.4	2908.2	2908.2
7.5°	2916.4	2886.3	2895.9	2885.6	2885.1
10°	2897.9	2867.8	2877.4	2867.1	2864.6
12.5°	2871.2	2841.2	2852.8	2840.5	2840.0
15°	2823.5	2796.0	2808.2	2797.8	2792.8
17.5°	2769.7	2739.6	2754.3	2739.9	2737.9
20°	2728.7	2698.6	2713.3	2692.8	2692.8
22.5°	2679.4	2649.3	2666.1	2639.4	2639.4
25°	2600.4	2570.3	2582.5	2559.3	2556.8
27.5°	2506.6	2477.0	2489.6	2463.5	2463.0
30°	2438.9	2411.3	2426.0	2397.8	2395.3
32.5°	2365.0	2339.4	2350.1	2321.9	2319.4
35°	2246.5	2224.0	2231.1	2205.4	2202.9
37.5°	2121.9	2098.8	2107.0	2084.9	2083.9
40°	2033.7	2018.6	2020.8	2002.8	1997.8
42.5°	1951.6	1934.6	1936.7	1918.8	1917.8
45°	1825.9	1813.4	1813.1	1795.2	1795.2
47.5°	1692.6	1683.1	1680.3	1665.4	1664.9
50°	1600.3	1592.7	1590.0	1577.1	1574.6
52.5°	1503.8	1500.3	1491.5	1480.7	1480.2
55°	1354.1	1349.1	1336.1	1328.4	1325.9
57.5°	1191.5	1181.4	1166.9	1155.6	1157.6
60°	1074.5	1064.5	1043.8	1038.6	1038.6
62.5°	961.7	949.7	928.9	921.8	925.8
65°	800.1	785.1	766.8	761.7	764.2
67.5°	653.4	639.9	620.1	620.1	618.1
70°	559.1	551.5	536.0	536.0	536.0
72.5°	475.0	471.4	460.1	460.0	458.0
75°	364.2	364.2	359.0	356.4	353.9
77.5°	272.9	273.9	271.3	268.7	264.1
80°	215.4	220.4	218.0	215.4	212.9
82.5°	162.1	167.1	166.7	162.1	161.6
85°	84.6	92.2	92.3	92.3	92.3
87.5°	23.1	32.6	36.4	37.5	39.5
90°	2.6	10.1	17.9	23.0	23.0
92.5°	23.0	104.5	181.5	78.0	66.0
95°	56.3	208.8	664.8	289.3	194.3
97.5°	93.1	230.6	1019.2	792.9	556.9
100°	117.6	245.1	1127.6	1143.1	923.1
102.5°	142.2	259.7	1156.3	1413.7	1219.7
105°	184.1	286.6	1140.4	1736.4	1633.9
107.5°	227.6	318.1	1074.5	1903.1	1931.6
110°	258.3	340.8	1025.4	1935.9	2058.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.9	363.4	976.3	1908.7	2093.2
115°	327.3	397.3	912.9	1816.1	2068.6
117.5°	367.2	434.2	872.5	1684.9	1969.4
120°	393.8	458.8	854.0	1596.9	1879.4
122.5°	416.3	481.3	841.8	1508.7	1781.2
125°	450.0	512.5	825.9	1391.6	1641.6
127.5°	480.2	542.2	817.2	1302.8	1517.3
130°	498.6	558.6	813.1	1247.1	1439.6
132.5°	517.0	577.0	809.0	1199.5	1370.0
135°	542.1	602.1	802.9	1133.5	1278.5
137.5°	569.2	623.7	799.8	1075.2	1197.2
140°	585.6	638.1	797.8	1038.1	1148.1
142.5°	601.9	650.4	795.7	1009.0	1101.0
145°	626.5	671.5	792.7	963.1	1035.6
147.5°	654.1	692.6	790.1	926.9	983.9
150°	672.5	705.0	790.1	906.2	951.2
152.5°	686.8	715.3	788.1	887.6	924.6
155°	708.3	733.3	787.6	864.8	889.8
157.5°	729.3	748.8	787.6	849.4	868.4
160°	741.5	759.0	787.6	839.0	854.0
162.5°	753.8	767.3	789.6	830.8	841.8
165°	767.1	777.1	790.1	823.4	825.9
167.5°	780.9	785.9	792.7	814.7	816.7
170°	785.0	790.0	792.7	810.6	810.6
172.5°	789.1	792.1	792.7	806.5	806.5
175°	795.2	797.7	792.7	802.8	800.3
177.5°	797.3	797.3	791.1	799.2	795.2
180°	795.2	795.2	795.2	795.2	795.2

(END OF REPORT)