

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: P562617

Luminaire Tested: **SQ4-PC3-050U-050D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562617
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-050D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

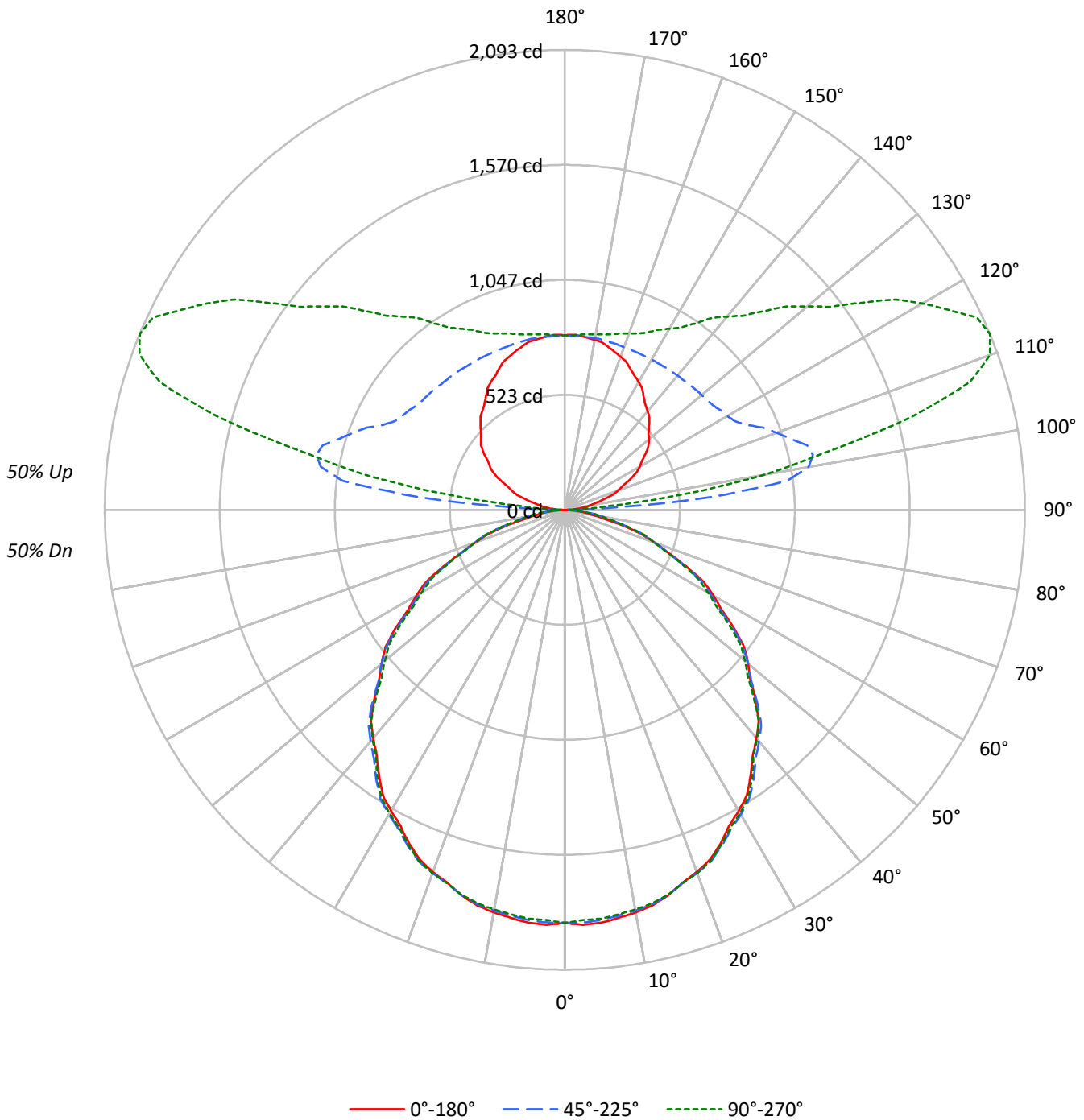
Lumens per Lamp: N/A
Luminaire Lumens: 10325.2 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.6
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	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	39	36	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	34	32	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	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	22	19	22	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°	5781	5781	5781
5°	5824	5787	5765
10°	5810	5783	5767
15°	5779	5779	5774
20°	5741	5758	5758
25°	5687	5729	5711
30°	5618	5686	5661
35°	5534	5619	5580
40°	5443	5520	5464
45°	5344	5382	5299
50°	5204	5204	5121
55°	5039	4974	4899
60°	4796	4699	4624
65°	4432	4344	4306
70°	3881	3912	3897
75°	3123	3453	3474
80°	2219	2928	2959
85°	1351	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	1.7
10°-20°	510.5	4.9
20°-30°	773.1	7.5
30°-40°	926.8	9.0
40°-50°	945.0	9.2
50°-60°	824.9	8.0
60°-70°	590.6	5.7
70°-80°	304.2	2.9
80°-90°	80.0	0.8
90°-100°	381.7	3.7
100°-110°	1037.0	10.0
110°-120°	1066.3	10.3
120°-130°	852.5	8.3
130°-140°	669.8	6.5
140°-150°	513.6	5.0
150°-160°	369.4	3.6
160°-170°	225.9	2.2
170°-180°	76.1	0.7
0°-30°	1461.4	14.2
0°-40°	2388.2	23.1
0°-60°	4158.2	40.3
0°-90°	5132.9	49.7
90°-120°	2485.0	24.1
90°-150°	4521.0	43.8
90°-180°	5192.0	50.3
0°-180°	10325.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1880	1880	1880	1880	1880	
5°	1887	1868	1874	1869	1867	179
15°	1815	1800	1815	1815	1814	512
25°	1676	1664	1688	1683	1683	771
35°	1474	1471	1497	1486	1486	922
45°	1229	1225	1237	1222	1218	946
55°	940	928	928	914	914	838
65°	609	596	597	592	592	602
75°	263	275	291	292	292	284
85°	38	59	70	71	70	52
90°	3	10	18	23	23	5
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°	1879.6	1879.6	1879.6	1879.6	1879.6
2.5°	1890.8	1874.4	1879.6	1875.3	1868.5
5°	1886.6	1867.9	1874.4	1869.1	1867.4
7.5°	1873.0	1854.3	1862.9	1859.4	1857.7
10°	1860.5	1841.8	1851.8	1848.3	1846.6
12.5°	1843.8	1826.4	1837.9	1834.4	1834.0
15°	1815.2	1799.9	1815.2	1815.2	1813.5
17.5°	1779.4	1765.4	1781.8	1782.8	1781.8
20°	1754.3	1739.0	1759.5	1757.8	1759.5
22.5°	1723.7	1711.1	1733.1	1728.6	1730.3
25°	1676.0	1664.1	1688.2	1683.0	1683.0
27.5°	1619.6	1611.1	1637.4	1631.8	1631.8
30°	1582.0	1573.5	1601.2	1594.2	1594.2
32.5°	1540.2	1534.5	1560.8	1552.4	1552.4
35°	1474.1	1470.7	1496.7	1486.3	1486.3
37.5°	1405.9	1402.8	1426.4	1413.8	1409.7
40°	1355.8	1354.1	1374.9	1361.0	1361.0
42.5°	1305.6	1303.9	1322.0	1305.3	1305.3
45°	1228.7	1225.3	1237.4	1221.7	1218.3
47.5°	1144.8	1141.4	1149.0	1131.9	1130.2
50°	1087.7	1084.3	1087.7	1072.0	1070.3
52.5°	1029.3	1023.1	1023.7	1008.0	1007.7
55°	939.8	927.9	927.6	913.7	913.7
57.5°	845.1	829.5	830.9	819.0	817.3
60°	779.7	762.7	764.0	753.6	751.8
62.5°	715.6	695.9	700.0	688.1	687.8
65°	609.1	595.5	597.0	591.7	591.7
67.5°	506.8	494.2	503.3	499.1	498.8
70°	431.6	423.1	435.1	435.1	433.4
72.5°	362.0	361.7	376.6	376.6	377.7
75°	262.8	274.7	290.6	292.4	292.4
77.5°	175.4	196.5	214.1	214.8	214.4
80°	125.3	149.1	165.3	168.8	167.1
82.5°	84.9	110.1	123.6	127.0	125.3
85°	38.3	58.7	69.6	71.3	69.6
87.5°	11.6	25.4	31.4	32.4	29.7
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)