

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: P562943

Luminaire Tested: **SQ4-PC3-100U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562943
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-100D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

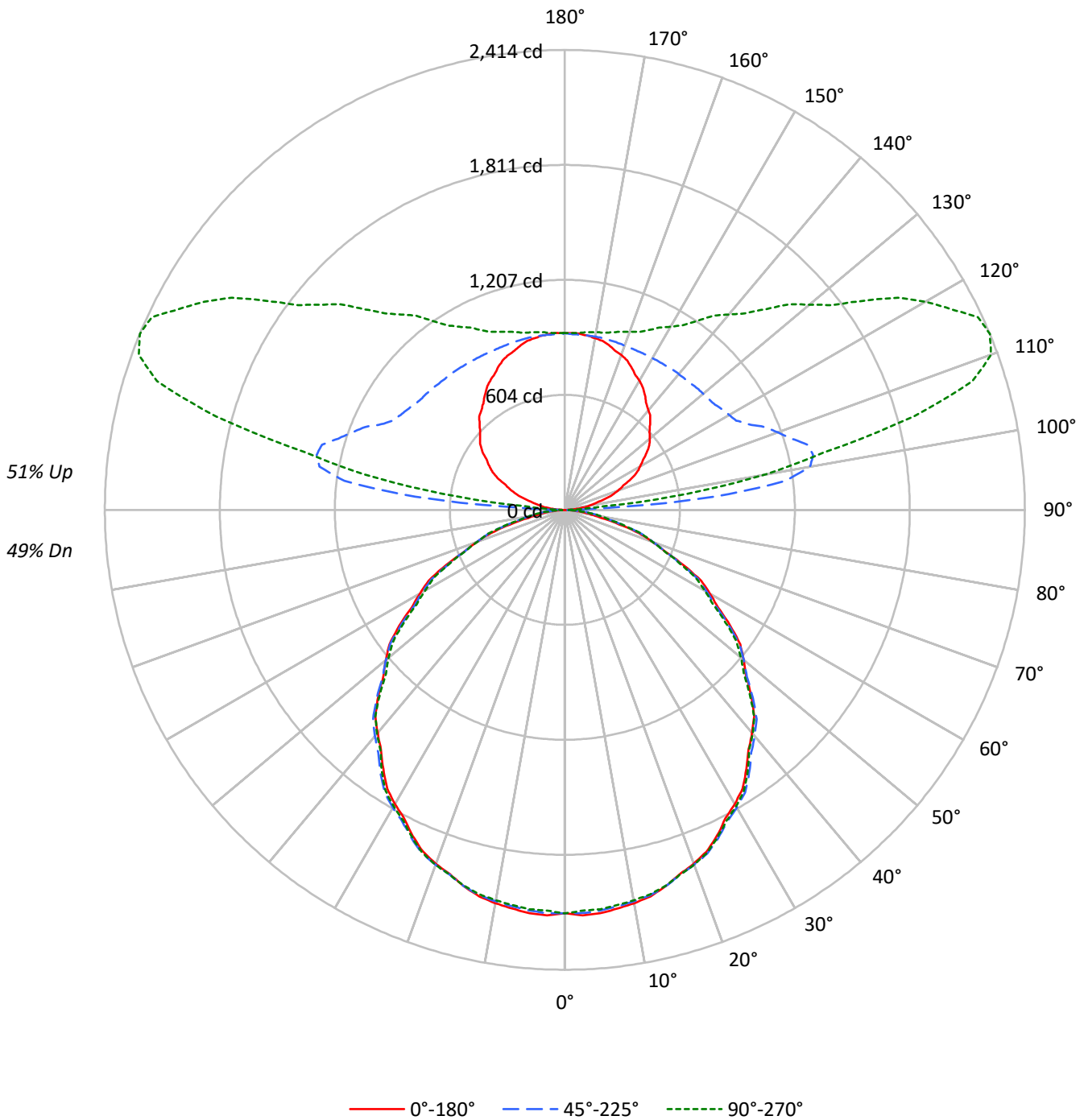
Lumens per Lamp: N/A
Luminaire Lumens: 11807.4 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 92.9
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	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	89	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	81	75	70	82	75	70	66	64	60	56	53	50	48	43	41	39	35
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	59	52	46	50	45	40	42	38	34	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	57	47	40	34	40	34	30	34	29	26	28	24	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	38	32	27	33	28	24	28	24	20	23	20	17	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°	13029	13029	13029
5°	13127	13042	12994
10°	13095	13034	12997
15°	13026	13026	13014
20°	12941	12979	12979
25°	12818	12912	12872
30°	12662	12815	12759
35°	12474	12665	12576
40°	12267	12441	12315
45°	12045	12130	11942
50°	11730	11730	11542
55°	11357	11210	11042
60°	10809	10592	10423
65°	9991	9791	9705
70°	8747	8817	8783
75°	7039	7783	7831
80°	5001	6599	6670
85°	3042	5540	5540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	1.7
10°-20°	575.3	4.9
20°-30°	871.2	7.4
30°-40°	1044.4	8.8
40°-50°	1065.0	9.0
50°-60°	929.6	7.9
60°-70°	665.5	5.6
70°-80°	342.8	2.9
80°-90°	88.6	0.8
90°-100°	434.2	3.7
100°-110°	1198.7	10.2
110°-120°	1236.3	10.5
120°-130°	993.5	8.4
130°-140°	780.8	6.6
140°-150°	598.8	5.1
150°-160°	430.4	3.6
160°-170°	263.2	2.2
170°-180°	88.7	0.8
0°-30°	1646.9	13.9
0°-40°	2691.3	22.8
0°-60°	4685.9	39.7
0°-90°	5782.9	49.0
90°-120°	2869.2	24.3
90°-150°	5242.2	44.4
90°-180°	6024.0	51.0
0°-180°	11807.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2118	2118	2118	2118	2118	
5°	2126	2105	2112	2106	2104	202
15°	2046	2028	2046	2046	2044	577
25°	1889	1875	1902	1897	1897	869
35°	1661	1657	1687	1675	1675	1039
45°	1385	1381	1394	1377	1373	1066
55°	1059	1046	1045	1030	1030	944
65°	686	671	673	667	667	679
75°	296	310	328	330	330	320
85°	43	66	78	80	78	59
90°	3	6	12	13	15	6
95°	64	235	788	324	211	68
105°	214	330	1319	2013	1896	227
115°	383	462	1062	2103	2391	376
125°	525	598	963	1629	1912	467
135°	632	700	936	1320	1488	489
145°	733	784	924	1124	1209	459
155°	826	854	917	1008	1040	381
165°	895	906	921	957	964	252
175°	927	929	923	936	933	88
180°	927	927	927	927	927	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2118.2	2118.2	2118.2	2118.2	2118.2
2.5°	2130.7	2112.3	2118.2	2113.3	2105.6
5°	2126.0	2104.9	2112.3	2106.4	2104.5
7.5°	2110.7	2089.6	2099.4	2095.4	2093.5
10°	2096.6	2075.5	2086.8	2082.8	2080.9
12.5°	2077.8	2058.2	2071.1	2067.2	2066.8
15°	2045.6	2028.4	2045.6	2045.6	2043.7
17.5°	2005.2	1989.5	2008.0	2009.1	2008.0
20°	1977.0	1959.7	1982.9	1980.9	1982.9
22.5°	1942.5	1928.3	1953.1	1948.0	1949.9
25°	1888.7	1875.3	1902.5	1896.6	1896.6
27.5°	1825.2	1815.6	1845.2	1838.9	1838.9
30°	1782.8	1773.2	1804.4	1796.5	1796.5
32.5°	1735.7	1729.2	1758.9	1749.5	1749.5
35°	1661.2	1657.4	1686.7	1674.9	1674.9
37.5°	1584.3	1580.9	1607.5	1593.2	1588.6
40°	1527.8	1525.9	1549.4	1533.7	1533.7
42.5°	1471.4	1469.4	1489.8	1471.0	1471.0
45°	1384.7	1380.8	1394.5	1376.7	1372.9
47.5°	1290.1	1286.3	1294.8	1275.6	1273.7
50°	1225.8	1222.0	1225.8	1208.1	1206.2
52.5°	1159.9	1153.0	1153.6	1136.0	1135.6
55°	1059.1	1045.7	1045.4	1029.7	1029.7
57.5°	952.4	934.8	936.3	922.9	921.0
60°	878.7	859.5	861.0	849.2	847.3
62.5°	806.5	784.2	788.8	775.5	775.1
65°	686.5	671.1	672.7	666.8	666.8
67.5°	571.1	556.9	567.2	562.5	562.1
70°	486.4	476.8	490.3	490.3	488.4
72.5°	407.9	407.6	424.4	424.4	425.6
75°	296.2	309.6	327.5	329.5	329.5
77.5°	197.7	221.5	241.2	242.0	241.6
80°	141.2	168.1	186.3	190.2	188.3
82.5°	95.7	124.1	139.3	143.1	141.2
85°	43.1	66.2	78.5	80.4	78.5
87.5°	13.1	27.5	33.8	34.0	31.2
90°	3.0	5.9	11.9	13.4	14.8
92.5°	26.7	110.8	198.2	72.3	56.4
95°	63.8	235.0	787.8	323.8	210.7
97.5°	105.6	263.2	1166.9	898.4	650.7
100°	136.5	280.1	1307.0	1316.2	1069.6
102.5°	166.2	299.3	1334.3	1626.3	1392.4
105°	213.6	329.7	1318.9	2013.4	1895.9
107.5°	264.1	367.3	1245.3	2200.2	2243.1
110°	299.7	392.5	1188.3	2240.3	2379.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	331.7	421.1	1134.9	2208.6	2414.0
115°	382.7	462.5	1062.2	2102.8	2391.4
117.5°	427.3	506.7	1014.4	1953.8	2282.3
120°	456.9	535.3	995.4	1853.0	2183.7
122.5°	485.4	560.3	980.0	1758.9	2072.2
125°	525.2	597.7	962.8	1629.4	1912.3
127.5°	559.0	631.5	952.7	1519.9	1763.9
130°	581.5	654.1	948.0	1453.0	1674.9
132.5°	602.9	672.0	943.2	1396.7	1597.8
135°	632.0	700.2	936.1	1319.7	1488.0
137.5°	664.6	726.7	932.5	1255.1	1398.7
140°	682.4	743.3	930.2	1211.9	1338.1
142.5°	702.6	758.9	927.8	1173.6	1284.7
145°	732.9	783.6	924.2	1123.5	1209.1
147.5°	761.9	806.3	921.0	1081.2	1147.7
150°	783.3	819.6	919.8	1056.0	1109.7
152.5°	799.9	833.9	918.6	1034.4	1078.8
155°	826.3	853.9	916.8	1008.0	1040.0
157.5°	850.7	871.8	917.1	988.8	1010.6
160°	864.9	883.8	918.3	978.0	994.0
162.5°	876.8	893.3	919.5	968.4	980.9
165°	894.6	906.2	921.3	957.0	964.3
167.5°	908.2	915.2	922.8	950.1	952.4
170°	915.3	921.1	922.8	946.5	946.5
172.5°	921.3	924.7	922.8	941.7	940.6
175°	927.2	928.7	922.8	936.0	933.1
177.5°	929.6	928.4	922.5	930.7	928.4
180°	927.2	927.2	927.2	927.2	927.2

(END OF REPORT)