

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: P563043

Luminaire Tested: **SQ4-PC3-125U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563043
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PC3-125U-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

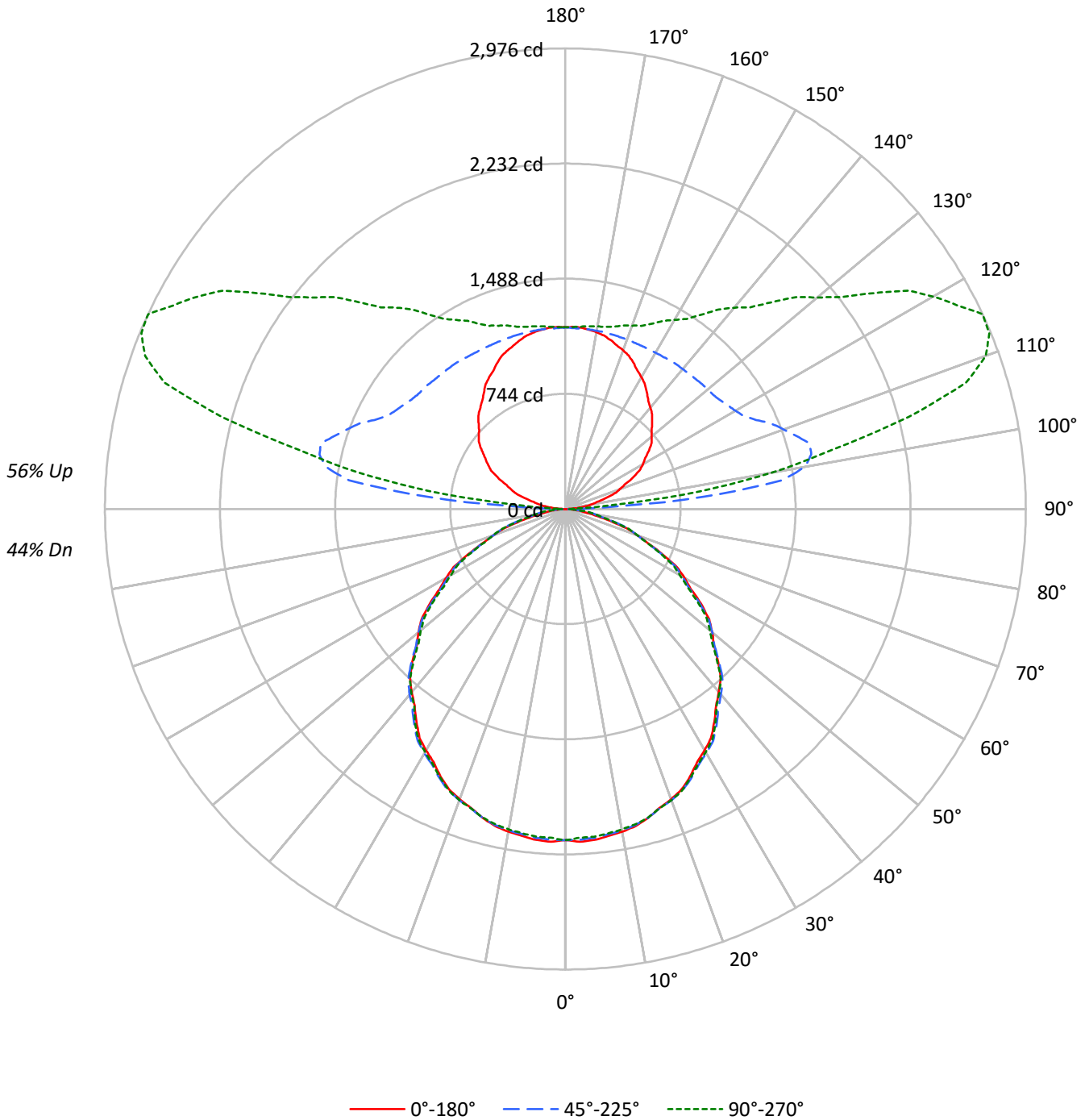
Lumens per Lamp: N/A
Luminaire Lumens: 13416.3 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 102.8
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13160	13160	13160
5°	13259	13173	13124
10°	13226	13165	13128
15°	13157	13157	13144
20°	13071	13109	13109
25°	12947	13041	13001
30°	12790	12944	12888
35°	12599	12793	12703
40°	12391	12566	12439
45°	12166	12252	12062
50°	11847	11847	11658
55°	11472	11323	11153
60°	10918	10699	10528
65°	10092	9889	9802
70°	8835	8907	8871
75°	7108	7861	7909
80°	5051	6666	6737
85°	3077	5589	5589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	1.5
10°-20°	581.1	4.3
20°-30°	879.9	6.6
30°-40°	1054.9	7.9
40°-50°	1075.7	8.0
50°-60°	939.0	7.0
60°-70°	672.2	5.0
70°-80°	346.2	2.6
80°-90°	90.3	0.7
90°-100°	548.9	4.1
100°-110°	1478.5	11.0
110°-120°	1551.7	11.6
120°-130°	1259.2	9.4
130°-140°	987.5	7.4
140°-150°	758.2	5.7
150°-160°	545.1	4.1
160°-170°	333.0	2.5
170°-180°	112.3	0.8
0°-30°	1663.5	12.4
0°-40°	2718.4	20.3
0°-60°	4733.1	35.3
0°-90°	5841.9	43.5
90°-120°	3579.1	26.7
90°-150°	6584.0	49.1
90°-180°	7574.0	56.5
0°-180°	13416.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2140	2140	2140	2140	2140	
5°	2147	2126	2134	2128	2126	204
15°	2066	2049	2066	2066	2064	583
25°	1908	1894	1922	1916	1916	878
35°	1678	1674	1704	1692	1692	1049
45°	1399	1395	1408	1391	1387	1077
55°	1070	1056	1056	1040	1040	954
65°	693	678	680	674	674	686
75°	299	313	331	333	333	323
85°	44	67	79	81	79	59
90°	3	9	18	19	19	8
95°	84	298	900	460	318	87
105°	274	426	1635	2446	2296	288
115°	483	591	1362	2631	2976	475
125°	659	757	1223	2066	2432	589
135°	794	886	1188	1667	1888	613
145°	918	989	1173	1425	1530	576
155°	1042	1080	1163	1279	1320	480
165°	1130	1143	1167	1214	1220	319
175°	1175	1173	1169	1185	1182	112
180°	1173	1173	1173	1173	1173	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2139.5	2139.5	2139.5	2139.5	2139.5
2.5°	2152.2	2133.6	2139.5	2134.6	2126.8
5°	2147.4	2126.1	2133.6	2127.6	2125.6
7.5°	2132.0	2110.7	2120.5	2116.5	2114.5
10°	2117.7	2096.4	2107.8	2103.8	2101.9
12.5°	2098.7	2078.9	2092.0	2088.0	2087.6
15°	2066.2	2048.8	2066.2	2066.2	2064.2
17.5°	2025.4	2009.5	2028.2	2029.3	2028.2
20°	1996.9	1979.4	2002.8	2000.9	2002.8
22.5°	1962.0	1947.7	1972.7	1967.6	1969.5
25°	1907.7	1894.2	1921.6	1915.7	1915.7
27.5°	1843.5	1833.9	1863.7	1857.4	1857.4
30°	1800.8	1791.1	1822.5	1814.6	1814.6
32.5°	1753.2	1746.6	1776.6	1767.1	1767.1
35°	1677.9	1674.1	1703.7	1691.8	1691.8
37.5°	1600.3	1596.8	1623.6	1609.3	1604.6
40°	1543.2	1541.3	1565.0	1549.2	1549.2
42.5°	1486.2	1484.2	1504.8	1485.8	1485.8
45°	1398.6	1394.7	1408.5	1390.6	1386.7
47.5°	1303.1	1299.2	1307.9	1288.4	1286.5
50°	1238.1	1234.3	1238.1	1220.3	1218.3
52.5°	1171.6	1164.6	1165.2	1147.4	1147.0
55°	1069.8	1056.2	1055.9	1040.0	1040.0
57.5°	962.0	944.2	945.7	932.2	930.3
60°	887.5	868.1	869.7	857.7	855.8
62.5°	814.6	792.1	796.8	783.3	782.9
65°	693.4	677.9	679.5	673.5	673.5
67.5°	576.9	562.5	572.9	568.1	567.8
70°	491.3	481.6	495.3	495.2	493.3
72.5°	412.1	411.7	428.7	428.7	429.9
75°	299.1	312.7	330.8	332.8	332.8
77.5°	199.7	223.7	243.7	244.4	244.1
80°	142.6	169.8	188.2	192.1	190.2
82.5°	96.7	125.3	140.7	144.6	142.6
85°	43.6	66.8	79.2	81.2	79.2
87.5°	13.3	28.4	35.3	35.5	32.4
90°	3.0	8.8	17.9	19.4	19.4
92.5°	36.5	128.8	254.7	122.6	85.2
95°	83.7	298.5	899.8	460.1	318.4
97.5°	133.6	341.7	1411.3	1179.0	889.0
100°	171.9	359.0	1573.9	1646.7	1366.1
102.5°	209.0	383.2	1627.7	1997.0	1766.7
105°	273.5	425.5	1635.2	2446.3	2295.8
107.5°	334.5	470.1	1565.5	2677.2	2716.1
110°	375.2	503.8	1502.1	2748.9	2890.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.2	537.5	1441.2	2733.1	2966.0
115°	482.8	590.9	1361.6	2631.0	2975.9
117.5°	541.7	643.1	1300.1	2468.1	2852.1
120°	579.9	677.8	1269.0	2351.1	2745.7
122.5°	613.4	710.2	1246.3	2231.5	2624.9
125°	659.1	757.1	1222.6	2066.5	2431.8
127.5°	703.1	799.5	1207.7	1920.9	2247.1
130°	729.4	825.9	1201.7	1837.5	2123.9
132.5°	755.7	851.0	1195.7	1764.0	2027.1
135°	793.7	885.7	1188.3	1667.1	1887.8
137.5°	829.8	918.1	1184.4	1584.9	1766.1
140°	855.0	939.7	1180.8	1534.3	1697.9
142.5°	881.3	960.2	1178.4	1487.0	1625.0
145°	917.7	989.3	1173.3	1425.3	1530.5
147.5°	957.2	1019.4	1168.2	1373.4	1456.1
150°	983.5	1037.6	1165.8	1340.8	1409.5
152.5°	1007.4	1054.5	1164.6	1314.2	1370.0
155°	1041.8	1079.8	1162.9	1278.9	1319.8
157.5°	1072.0	1101.5	1163.2	1254.1	1281.5
160°	1091.1	1116.0	1164.3	1239.5	1260.0
162.5°	1107.8	1128.0	1165.5	1227.5	1242.1
165°	1130.0	1143.1	1167.3	1213.8	1219.7
167.5°	1147.9	1155.5	1168.8	1203.3	1205.6
170°	1159.9	1162.8	1168.8	1197.2	1197.2
172.5°	1167.0	1167.6	1170.0	1191.3	1191.3
175°	1174.8	1173.3	1168.8	1185.2	1182.3
177.5°	1178.1	1175.8	1169.7	1179.2	1176.9
180°	1173.3	1173.3	1173.3	1173.3	1173.3

(END OF REPORT)