

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: P563715

Luminaire Tested: **SQ4-PP3-125U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563715
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-PP3-125U-100D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

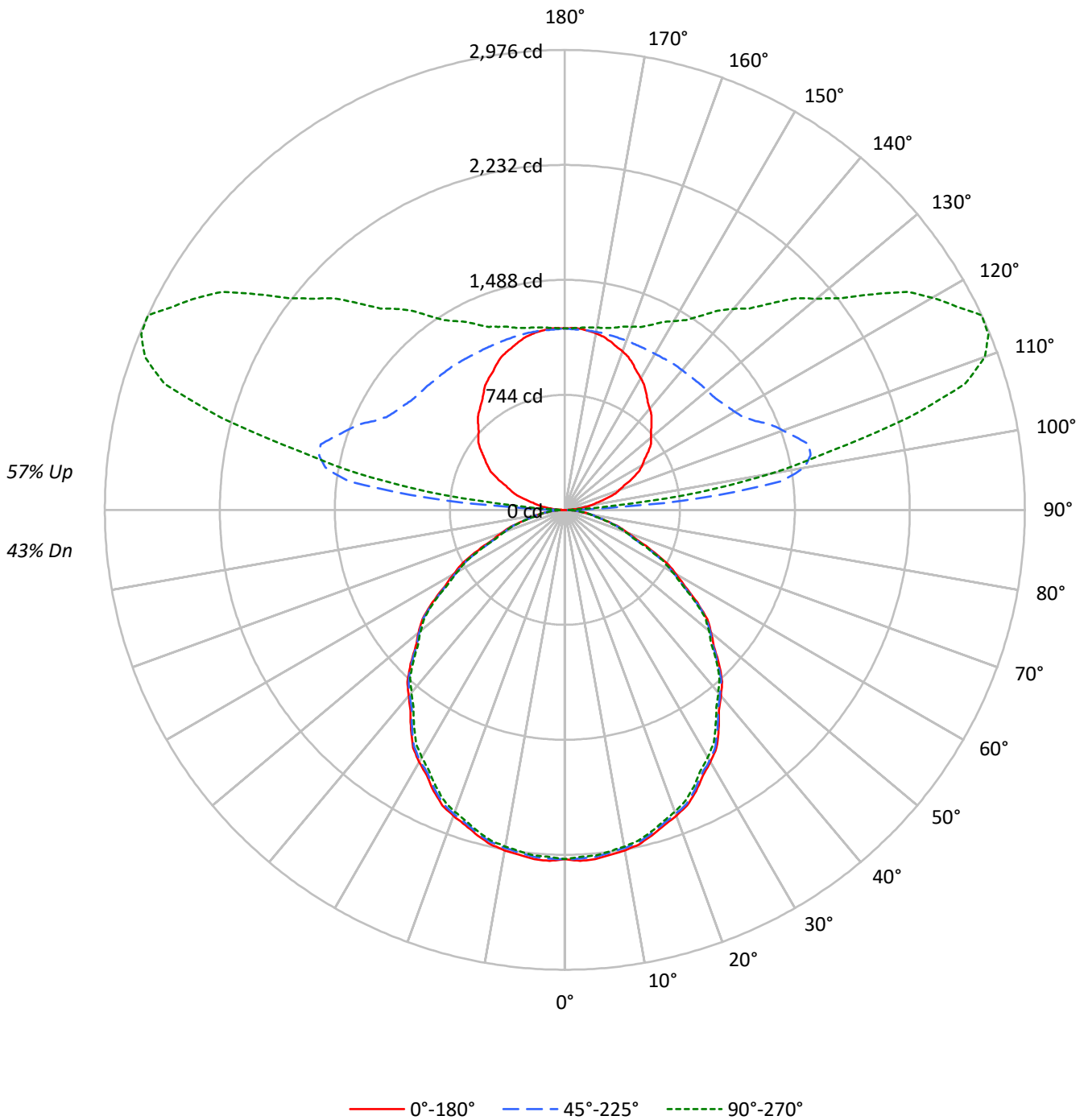
Lumens per Lamp: N/A
Luminaire Lumens: 13361.1 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	43
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23	20
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13900	13900	13900
5°	14001	13916	13867
10°	13978	13879	13817
15°	13886	13810	13734
20°	13793	13716	13612
25°	13630	13535	13401
30°	13377	13307	13138
35°	13028	12938	12775
40°	12611	12531	12388
45°	12267	12181	12060
50°	11826	11750	11637
55°	11214	11066	10980
60°	10209	9916	9867
65°	8993	8619	8590
70°	7765	7443	7443
75°	6683	6590	6495
80°	5894	5961	5823
85°	4615	5032	5032



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.7	1.6
10°-20°	610.1	4.6
20°-30°	913.9	6.8
30°-40°	1072.0	8.0
40°-50°	1075.3	8.0
50°-60°	917.4	6.9
60°-70°	598.3	4.5
70°-80°	300.1	2.2
80°-90°	85.8	0.6
90°-100°	548.9	4.1
100°-110°	1478.5	11.1
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°	1737.7	13.0
0°-40°	2809.7	21.0
0°-60°	4802.4	35.9
0°-90°	5786.6	43.3
90°-120°	3579.1	26.8
90°-150°	6584.0	49.3
90°-180°	7574.0	56.7
0°-180°	13361.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2260	2260	2260	2260	2260	
5°	2268	2246	2254	2246	2246	215
15°	2181	2159	2169	2161	2157	615
25°	2008	1985	1994	1977	1975	923
35°	1735	1718	1723	1703	1701	1084
45°	1410	1400	1400	1386	1386	1086
55°	1046	1042	1032	1026	1024	929
65°	618	606	592	588	590	617
75°	281	281	277	275	273	305
85°	65	71	71	71	71	77
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°	2259.8	2259.8	2259.8	2259.8	2259.8
2.5°	2274.1	2255.5	2259.8	2256.4	2247.1
5°	2267.7	2246.4	2253.9	2246.0	2246.0
7.5°	2252.3	2229.0	2236.4	2228.5	2228.1
10°	2238.0	2214.8	2222.2	2214.2	2212.3
12.5°	2217.4	2194.2	2203.2	2193.7	2193.3
15°	2180.6	2159.3	2168.7	2160.7	2156.8
17.5°	2139.0	2115.8	2127.1	2116.0	2114.4
20°	2107.3	2084.1	2095.4	2079.6	2079.6
22.5°	2069.3	2046.0	2059.0	2038.4	2038.4
25°	2008.3	1985.0	1994.4	1976.6	1974.6
27.5°	1935.8	1912.9	1922.7	1902.5	1902.1
30°	1883.5	1862.2	1873.6	1851.8	1849.8
32.5°	1826.5	1806.7	1815.0	1793.2	1791.2
35°	1735.0	1717.5	1723.1	1703.2	1701.3
37.5°	1638.7	1620.9	1627.2	1610.2	1609.4
40°	1570.6	1559.0	1560.7	1546.7	1542.9
42.5°	1507.2	1494.0	1495.7	1481.8	1481.1
45°	1410.2	1400.5	1400.3	1386.4	1386.4
47.5°	1307.2	1299.8	1297.7	1286.2	1285.8
50°	1235.9	1230.1	1227.9	1218.0	1216.1
52.5°	1161.4	1158.7	1151.9	1143.6	1143.2
55°	1045.7	1041.9	1031.9	1025.9	1023.9
57.5°	920.2	912.4	901.2	892.5	894.0
60°	829.9	822.1	806.1	802.1	802.1
62.5°	742.7	733.4	717.4	711.9	715.0
65°	617.9	606.3	592.2	588.3	590.2
67.5°	504.6	494.2	478.9	478.9	477.3
70°	431.8	426.0	413.9	413.9	413.9
72.5°	366.8	364.1	355.3	355.3	353.7
75°	281.2	281.2	277.3	275.3	273.3
77.5°	210.7	211.5	209.5	207.5	204.0
80°	166.4	170.2	168.3	166.3	164.4
82.5°	125.2	129.0	128.7	125.2	124.8
85°	65.4	71.2	71.3	71.3	71.3
87.5°	18.0	25.4	28.9	29.3	30.8
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)