

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: P563847

Luminaire Tested: **SQ4-PP3-150U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563847
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

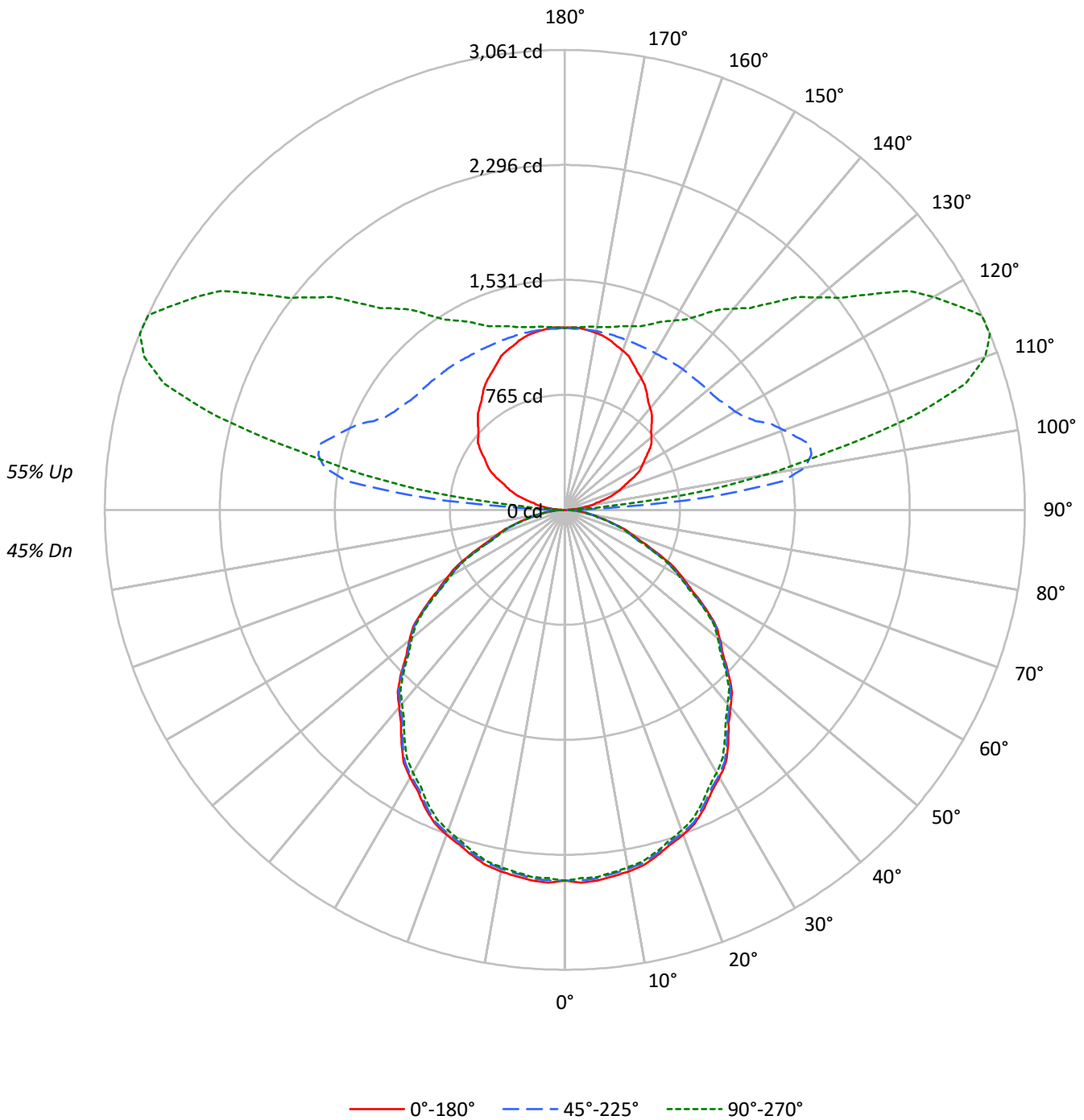
Lumens per Lamp: N/A
Luminaire Lumens: 14131.1 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 127.1
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	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15181	15181	15181
5°	15292	15199	15146
10°	15267	15159	15091
15°	15166	15083	15001
20°	15065	14980	14867
25°	14887	14783	14637
30°	14611	14534	14350
35°	14228	14131	13953
40°	13773	13687	13530
45°	13398	13304	13171
50°	12916	12834	12709
55°	12248	12085	11993
60°	11150	10830	10777
65°	9823	9414	9382
70°	8481	8130	8130
75°	7301	7196	7094
80°	6436	6514	6358
85°	5039	5498	5498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	1.7
10°-20°	666.4	4.7
20°-30°	998.2	7.1
30°-40°	1170.8	8.3
40°-50°	1174.5	8.3
50°-60°	1001.9	7.1
60°-70°	653.4	4.6
70°-80°	327.8	2.3
80°-90°	93.3	0.7
90°-100°	563.1	4.0
100°-110°	1522.4	10.8
110°-120°	1600.6	11.3
120°-130°	1300.1	9.2
130°-140°	1019.8	7.2
140°-150°	782.7	5.5
150°-160°	562.9	4.0
160°-170°	343.9	2.4
170°-180°	115.9	0.8
0°-30°	1898.0	13.4
0°-40°	3068.8	21.7
0°-60°	5245.2	37.1
0°-90°	6319.7	44.7
90°-120°	3686.0	26.1
90°-150°	6788.7	48.0
90°-180°	7811.0	55.3
0°-180°	14131.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2468	2468	2468	2468	2468	
5°	2477	2454	2462	2453	2453	235
15°	2382	2358	2369	2360	2356	672
25°	2194	2168	2178	2159	2157	1009
35°	1895	1876	1882	1860	1858	1184
45°	1540	1530	1529	1514	1514	1186
55°	1142	1138	1127	1120	1118	1015
65°	675	662	647	642	645	674
75°	307	307	303	301	298	333
85°	71	78	78	78	78	84
90°	3	8	17	18	17	8
95°	87	307	936	485	288	91
105°	283	437	1689	2491	2389	298
115°	498	609	1401	2712	3061	492
125°	682	782	1262	2130	2503	608
135°	818	915	1228	1720	1947	632
145°	951	1022	1212	1472	1585	595
155°	1073	1115	1201	1321	1364	495
165°	1168	1180	1206	1253	1260	329
175°	1213	1212	1208	1223	1221	115
180°	1212	1212	1212	1212	1212	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2468.2	2468.2	2468.2	2468.2	2468.2
2.5°	2483.7	2463.4	2468.2	2464.5	2454.3
5°	2476.8	2453.6	2461.7	2453.0	2453.0
7.5°	2460.0	2434.6	2442.6	2434.0	2433.6
10°	2444.4	2419.0	2427.1	2418.4	2416.3
12.5°	2421.9	2396.5	2406.3	2395.9	2395.5
15°	2381.6	2358.4	2368.7	2359.9	2355.7
17.5°	2336.2	2310.8	2323.2	2311.1	2309.4
20°	2301.6	2276.2	2288.6	2271.3	2271.3
22.5°	2260.1	2234.7	2248.8	2226.3	2226.3
25°	2193.5	2168.1	2178.3	2158.8	2156.7
27.5°	2114.3	2089.3	2100.0	2077.9	2077.5
30°	2057.2	2033.9	2046.4	2022.5	2020.4
32.5°	1994.9	1973.3	1982.3	1958.5	1956.4
35°	1894.9	1875.9	1882.0	1860.3	1858.2
37.5°	1789.8	1770.3	1777.3	1758.6	1757.8
40°	1715.4	1702.7	1704.6	1689.3	1685.1
42.5°	1646.2	1631.8	1633.6	1618.5	1617.6
45°	1540.2	1529.6	1529.4	1514.2	1514.2
47.5°	1427.7	1419.7	1417.3	1404.8	1404.3
50°	1349.8	1343.5	1341.2	1330.3	1328.2
52.5°	1268.5	1265.5	1258.1	1249.0	1248.6
55°	1142.2	1137.9	1127.0	1120.5	1118.4
57.5°	1005.0	996.5	984.2	974.8	976.5
60°	906.4	897.9	880.4	876.1	876.1
62.5°	811.2	801.0	783.5	777.5	780.9
65°	674.9	662.2	646.8	642.5	644.6
67.5°	551.2	539.8	523.1	523.0	521.3
70°	471.6	465.2	452.1	452.1	452.1
72.5°	400.6	397.7	388.1	388.0	386.3
75°	307.2	307.2	302.8	300.6	298.5
77.5°	230.2	231.0	228.9	226.6	222.8
80°	181.7	185.9	183.9	181.7	179.5
82.5°	136.7	140.9	140.6	136.7	136.3
85°	71.4	77.7	77.9	77.9	77.9
87.5°	19.6	27.3	31.1	31.4	32.8
90°	2.6	7.7	17.0	18.2	17.0
92.5°	37.0	135.0	266.3	115.6	83.7
95°	87.4	306.7	936.4	484.6	288.2
97.5°	140.3	351.8	1459.6	1207.9	887.1
100°	180.0	370.0	1622.4	1692.0	1368.1
102.5°	216.5	395.3	1679.8	2059.0	1816.7
105°	283.0	437.3	1688.9	2491.2	2389.2
107.5°	344.6	485.3	1615.1	2760.9	2794.8
110°	392.6	520.1	1549.3	2833.3	2977.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	435.3	554.7	1488.8	2818.8	3060.9
115°	498.2	609.1	1400.7	2711.5	3060.9
117.5°	559.7	663.8	1342.5	2547.4	2943.5
120°	597.3	699.3	1308.1	2429.7	2833.9
122.5°	632.8	732.8	1287.2	2303.5	2710.8
125°	682.1	781.5	1262.4	2130.3	2502.7
127.5°	727.5	825.1	1247.8	1989.0	2316.4
130°	752.5	853.2	1241.6	1901.7	2197.5
132.5°	778.6	878.3	1235.3	1822.9	2095.3
135°	817.7	914.6	1228.5	1720.1	1947.1
137.5°	857.1	948.6	1222.8	1636.7	1821.6
140°	884.2	969.7	1220.7	1583.1	1747.6
142.5°	910.3	990.6	1216.5	1534.6	1678.7
145°	950.7	1022.1	1211.6	1472.3	1584.6
147.5°	987.5	1050.8	1205.8	1415.9	1502.1
150°	1014.6	1070.7	1203.7	1385.3	1454.1
152.5°	1039.7	1088.6	1202.7	1356.8	1413.4
155°	1073.3	1115.4	1201.1	1320.8	1364.1
157.5°	1108.3	1137.6	1201.4	1295.7	1324.2
160°	1128.1	1152.3	1202.4	1279.8	1300.2
162.5°	1143.7	1163.9	1203.5	1267.2	1282.5
165°	1168.5	1180.0	1206.3	1253.4	1259.8
167.5°	1185.5	1193.4	1206.6	1241.6	1244.7
170°	1195.9	1199.7	1207.6	1236.3	1236.3
172.5°	1204.3	1205.0	1207.6	1230.1	1229.0
175°	1212.9	1211.6	1207.6	1223.2	1220.7
177.5°	1215.7	1212.7	1207.4	1217.8	1214.7
180°	1211.6	1211.6	1211.6	1211.6	1211.6

(END OF REPORT)