

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: P563667

Luminaire Tested: **SQ4-PP3-125U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563667
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-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

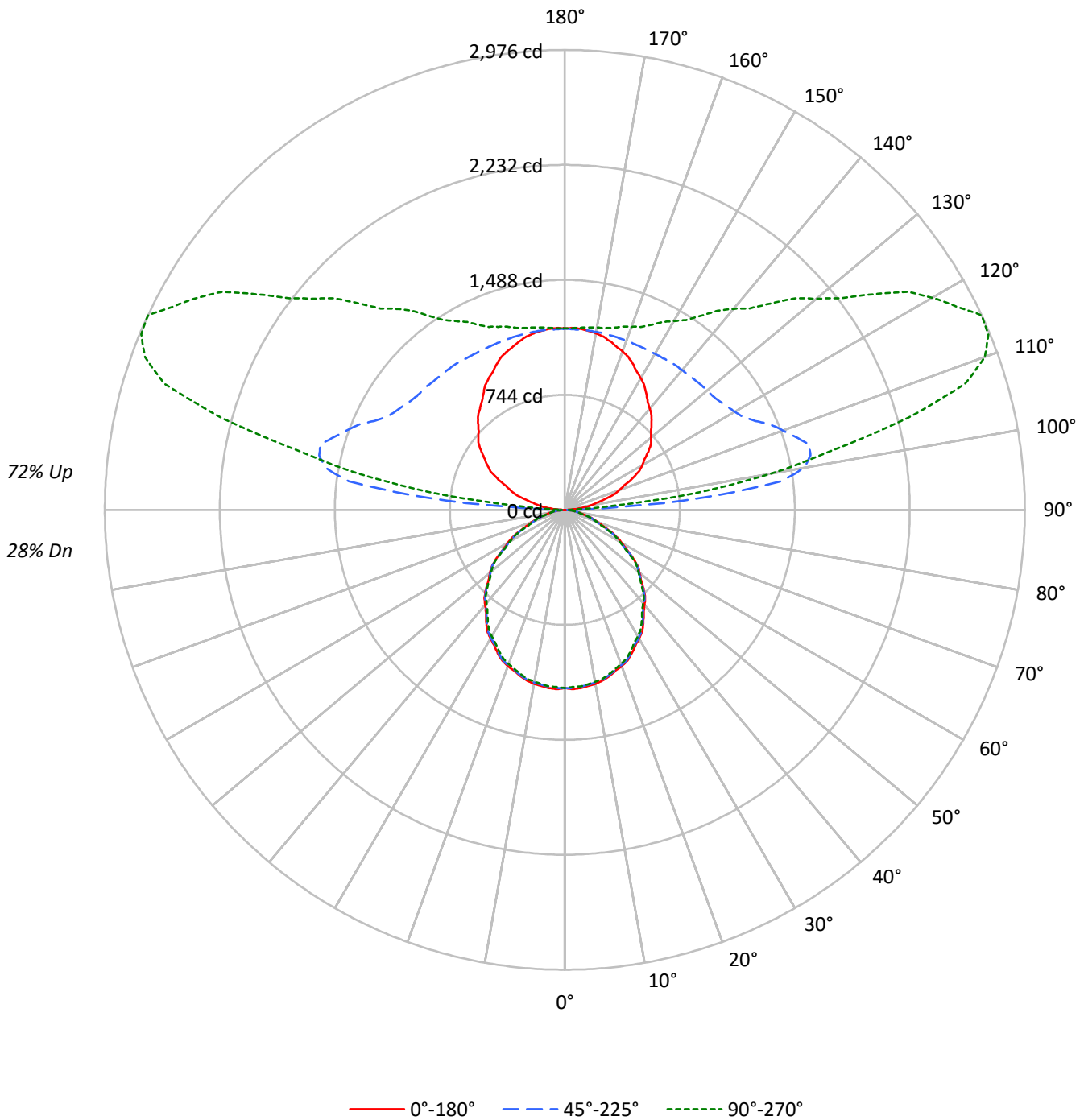
Lumens per Lamp: N/A
Luminaire Lumens: 10530.6 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.2
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7097	7097	7097
5°	7150	7106	7081
10°	7138	7087	7056
15°	7091	7052	7013
20°	7044	7004	6951
25°	6960	6912	6843
30°	6831	6795	6709
35°	6652	6607	6523
40°	6439	6399	6325
45°	6264	6219	6158
50°	6039	6000	5942
55°	5726	5650	5607
60°	5213	5063	5039
65°	4592	4401	4387
70°	3965	3802	3802
75°	3413	3365	3318
80°	3011	3046	2972
85°	2357	2569	2569



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	1.0
10°-20°	311.6	3.0
20°-30°	466.7	4.4
30°-40°	547.4	5.2
40°-50°	549.1	5.2
50°-60°	468.4	4.4
60°-70°	305.5	2.9
70°-80°	153.3	1.5
80°-90°	45.1	0.4
90°-100°	548.9	5.2
100°-110°	1478.5	14.0
110°-120°	1551.7	14.7
120°-130°	1259.2	12.0
130°-140°	987.5	9.4
140°-150°	758.2	7.2
150°-160°	545.1	5.2
160°-170°	333.0	3.2
170°-180°	112.3	1.1
0°-30°	887.4	8.4
0°-40°	1434.7	13.6
0°-60°	2452.3	23.3
0°-90°	2956.2	28.1
90°-120°	3579.1	34.0
90°-150°	6584.0	62.5
90°-180°	7574.0	71.9
0°-180°	10530.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1154	1154	1154	1154	1154	
5°	1158	1147	1151	1147	1147	110
15°	1114	1103	1107	1103	1101	314
25°	1026	1014	1018	1009	1008	472
35°	886	877	880	870	869	553
45°	720	715	715	708	708	554
55°	534	532	527	524	523	475
65°	316	310	302	300	301	315
75°	144	144	142	141	140	156
85°	33	36	36	36	36	39
90°	3	9	18	19	19	7
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°	1153.9	1153.9	1153.9	1153.9	1153.9
2.5°	1161.2	1151.7	1153.9	1152.2	1147.5
5°	1158.0	1147.1	1150.9	1146.9	1146.9
7.5°	1150.1	1138.2	1142.0	1138.0	1137.8
10°	1142.8	1130.9	1134.7	1130.7	1129.7
12.5°	1132.3	1120.4	1125.0	1120.2	1120.0
15°	1113.5	1102.6	1107.4	1103.3	1101.3
17.5°	1092.2	1080.4	1086.2	1080.5	1079.7
20°	1076.1	1064.2	1070.0	1061.9	1061.9
22.5°	1056.6	1044.8	1051.4	1040.9	1040.9
25°	1025.5	1013.6	1018.4	1009.3	1008.3
27.5°	988.5	976.8	981.8	971.5	971.3
30°	961.8	950.9	956.7	945.6	944.6
32.5°	932.7	922.6	926.8	915.6	914.7
35°	885.9	877.0	879.9	869.7	868.7
37.5°	836.8	827.7	830.9	822.2	821.8
40°	802.0	796.1	796.9	789.8	787.8
42.5°	769.6	762.9	763.8	756.7	756.3
45°	720.1	715.1	715.0	707.9	707.9
47.5°	667.5	663.7	662.6	656.8	656.6
50°	631.1	628.1	627.0	621.9	621.0
52.5°	593.0	591.7	588.2	583.9	583.7
55°	534.0	532.0	526.9	523.9	522.9
57.5°	469.9	465.9	460.2	455.7	456.5
60°	423.8	419.8	411.6	409.6	409.6
62.5°	379.3	374.5	366.3	363.5	365.1
65°	315.5	309.6	302.4	300.4	301.4
67.5°	257.7	252.3	244.5	244.5	243.7
70°	220.5	217.5	211.4	211.4	211.4
72.5°	187.3	185.9	181.4	181.4	180.6
75°	143.6	143.6	141.6	140.6	139.6
77.5°	107.6	108.0	107.0	105.9	104.2
80°	85.0	86.9	86.0	84.9	83.9
82.5°	63.9	65.9	65.7	63.9	63.7
85°	33.4	36.3	36.4	36.4	36.4
87.5°	9.5	13.8	16.5	16.8	17.6
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)