

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: P520277

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520277
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

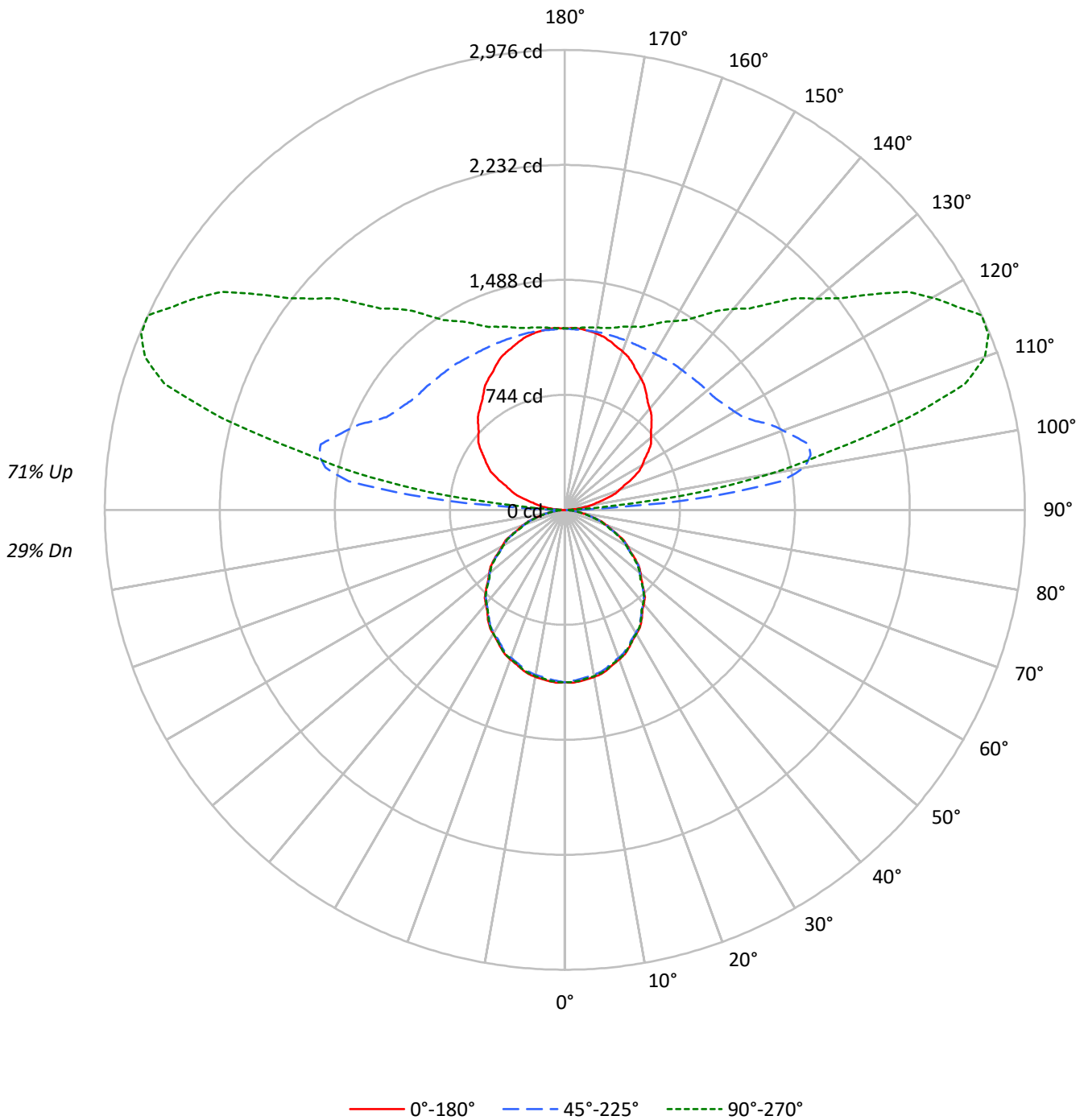
Lumens per Lamp: N/A
Luminaire Lumens: 10623.1 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.6
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	37	37	37	29
1	93	89	85	82	83	80	77	74	63	60	58	47	45	44	32	31	31	24
2	85	77	72	67	76	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	47	42	43	38	34	32	29	26	22	20	19	15
5	64	53	45	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6864	6864	6864
5°	6881	6798	6853
10°	6858	6775	6821
15°	6812	6726	6783
20°	6747	6669	6718
25°	6671	6591	6651
30°	6579	6526	6568
35°	6506	6427	6461
40°	6382	6322	6334
45°	6251	6199	6199
50°	6119	6061	6033
55°	5975	5896	5864
60°	5752	5660	5623
65°	5480	5370	5305
70°	5106	4998	4890
75°	4579	4439	4330
80°	3705	3648	3546
85°	2216	2534	2639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	1.0
10°-20°	299.9	2.8
20°-30°	450.4	4.2
30°-40°	537.6	5.1
40°-50°	550.9	5.2
50°-60°	491.3	4.6
60°-70°	365.9	3.4
70°-80°	198.6	1.9
80°-90°	48.7	0.5
90°-100°	548.9	5.2
100°-110°	1478.6	13.9
110°-120°	1551.7	14.6
120°-130°	1259.2	11.9
130°-140°	987.5	9.3
140°-150°	758.2	7.1
150°-160°	545.1	5.1
160°-170°	333.0	3.1
170°-180°	112.3	1.1
0°-30°	855.5	8.1
0°-40°	1393.1	13.1
0°-60°	2435.3	22.9
0°-90°	3048.6	28.7
90°-120°	3579.2	33.7
90°-150°	6584.0	62.0
90°-180°	7574.0	71.3
0°-180°	10623.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1114	1113	1101	1112	1110	106
15°	1070	1067	1056	1065	1065	301
25°	983	980	971	977	980	453
35°	866	864	856	856	860	541
45°	719	720	713	711	713	555
55°	557	557	550	545	547	496
65°	376	375	369	364	364	373
75°	193	191	187	184	182	204
85°	31	34	36	37	37	44
90°	3	9	18	19	19	7
95°	84	299	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°	1116.0	1116.0	1116.0	1116.0	1116.0
2.5°	1119.6	1117.2	1107.6	1115.9	1114.8
5°	1114.5	1113.1	1101.0	1111.5	1110.0
7.5°	1106.5	1103.5	1091.8	1101.9	1100.4
10°	1098.1	1095.1	1084.7	1093.5	1092.1
12.5°	1087.3	1085.5	1073.8	1082.8	1082.5
15°	1069.7	1066.7	1056.3	1065.2	1065.2
17.5°	1046.4	1044.6	1034.4	1043.1	1041.9
20°	1030.8	1028.0	1018.9	1026.4	1026.4
22.5°	1011.7	1009.9	1000.9	1007.3	1008.4
25°	983.0	980.1	971.1	977.1	980.0
27.5°	951.3	949.0	941.5	945.4	947.5
30°	926.3	926.3	918.8	920.4	924.7
32.5°	903.5	903.5	894.8	896.4	898.5
35°	866.5	863.6	856.0	856.1	860.5
37.5°	823.5	822.0	817.2	816.4	817.5
40°	794.8	793.3	787.4	788.8	788.8
42.5°	766.1	764.7	758.7	756.6	759.0
45°	718.6	720.0	712.6	711.1	712.6
47.5°	671.7	671.7	665.7	661.5	663.9
50°	639.5	639.5	633.4	630.5	630.5
52.5°	605.9	607.1	600.0	595.8	597.0
55°	557.2	557.2	549.8	545.3	546.8
57.5°	503.5	503.5	496.0	491.5	494.2
60°	467.6	467.6	460.1	455.7	457.1
62.5°	431.8	431.8	424.3	419.8	420.1
65°	376.5	375.0	369.0	364.5	364.5
67.5°	323.3	319.5	314.9	308.9	308.9
70°	283.9	282.4	277.9	271.9	271.9
72.5°	248.0	245.3	240.8	236.1	236.1
75°	192.7	191.3	186.8	183.7	182.2
77.5°	138.0	136.9	136.6	132.4	133.5
80°	104.6	104.6	103.0	100.1	100.1
82.5°	74.7	75.8	73.2	72.6	71.4
85°	31.4	34.3	35.9	37.4	37.4
87.5°	6.6	11.2	11.9	13.4	13.4
90°	3.0	8.9	18.0	19.4	19.4
92.5°	36.5	128.9	254.7	122.6	85.2
95°	83.7	298.6	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	383.1	1627.7	1997.0	1766.7
105°	273.5	425.5	1635.2	2446.4	2295.8
107.5°	334.5	470.2	1565.5	2677.3	2716.1
110°	375.1	503.8	1502.2	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	2966.1
115°	482.8	590.9	1361.7	2631.0	2975.9
117.5°	541.7	643.1	1300.1	2468.1	2852.1
120°	579.9	677.9	1269.0	2351.1	2745.7
122.5°	613.4	710.1	1246.2	2231.6	2625.0
125°	659.1	757.1	1222.6	2066.5	2431.9
127.5°	703.1	799.5	1207.7	1920.9	2247.0
130°	729.4	825.9	1201.7	1837.5	2123.9
132.5°	755.7	850.9	1195.7	1764.1	2027.1
135°	793.7	885.8	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	1534.2	1697.9
142.5°	881.2	960.2	1178.4	1487.1	1625.0
145°	917.7	989.4	1173.3	1425.3	1530.5
147.5°	957.2	1019.5	1168.3	1373.4	1456.1
150°	983.5	1037.5	1165.8	1340.7	1409.4
152.5°	1007.4	1054.5	1164.6	1314.2	1370.1
155°	1041.8	1079.8	1162.8	1278.9	1319.8
157.5°	1072.0	1101.5	1163.1	1254.0	1281.5
160°	1091.1	1116.0	1164.3	1239.5	1260.0
162.5°	1107.9	1128.0	1165.5	1227.5	1242.1
165°	1130.0	1143.1	1167.4	1213.8	1219.7
167.5°	1147.9	1155.5	1168.9	1203.3	1205.6
170°	1159.9	1162.7	1168.9	1197.2	1197.2
172.5°	1167.1	1167.6	1170.0	1191.3	1191.3
175°	1174.8	1173.3	1168.9	1185.2	1182.3
177.5°	1178.1	1175.8	1169.8	1179.2	1176.9
180°	1173.3	1173.3	1173.3	1173.3	1173.3

(END OF REPORT)