

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: P565011

Luminaire Tested: **SQ4-PW1-125U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565011
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

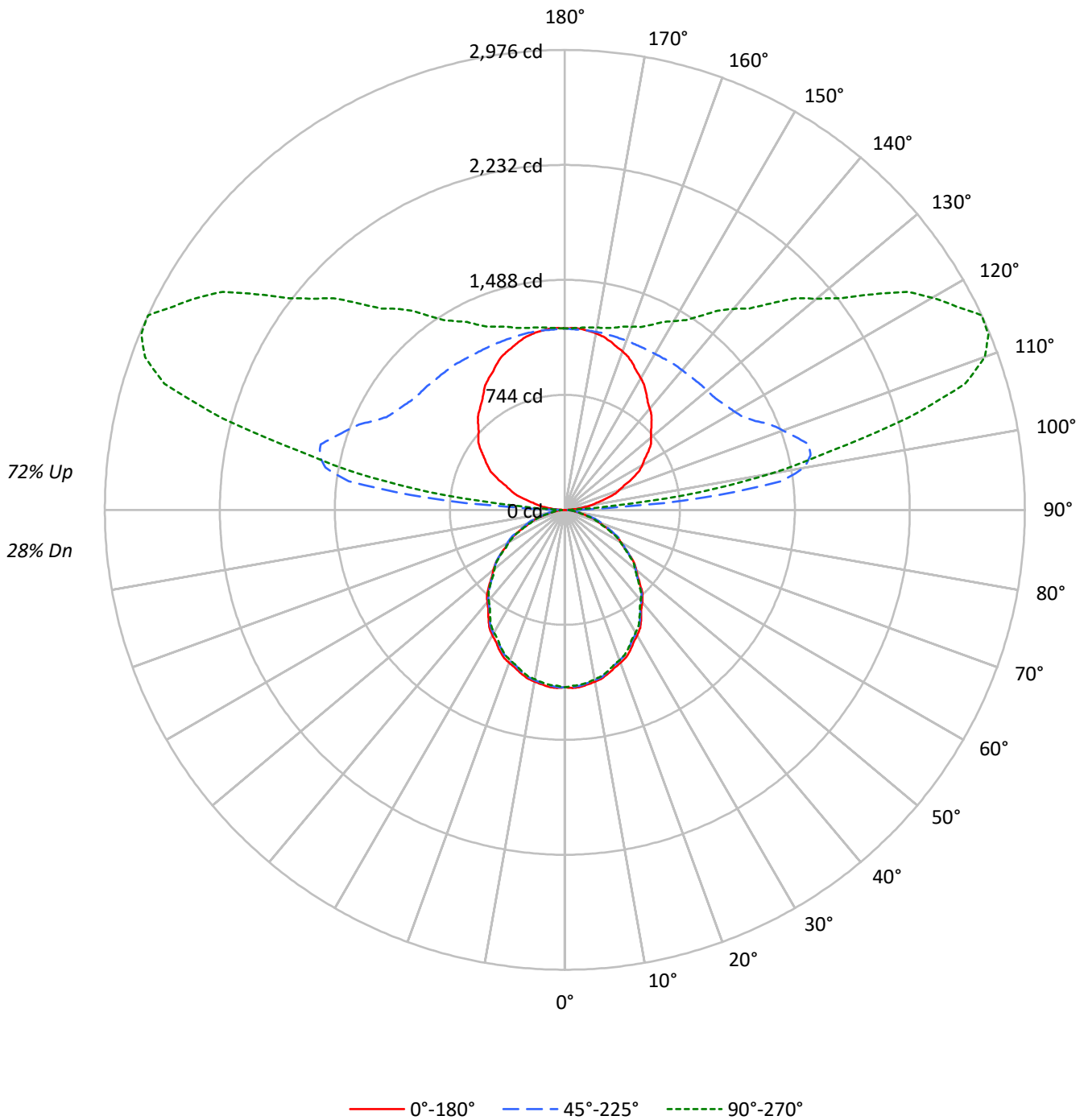
Lumens per Lamp: N/A
Luminaire Lumens: 10498.4 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	79	76	74	62	60	58	46	45	44	32	31	30	24
2	85	77	72	67	75	69	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22	17
4	70	60	53	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	18	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	18	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°	7062	7062	7062
5°	7108	7052	7020
10°	7051	6994	6956
15°	6976	6899	6873
20°	6893	6787	6773
25°	6797	6673	6652
30°	6653	6553	6509
35°	6464	6373	6335
40°	6262	6165	6141
45°	6019	5939	5913
50°	5769	5720	5682
55°	5500	5500	5413
60°	5164	5264	5077
65°	4726	4961	4608
70°	4167	4566	4057
75°	3558	4088	3463
80°	2759	3439	2795
85°	1785	2639	2357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	1.0
10°-20°	305.2	2.9
20°-30°	452.8	4.3
30°-40°	529.8	5.0
40°-50°	527.4	5.0
50°-60°	455.5	4.3
60°-70°	327.8	3.1
70°-80°	171.9	1.6
80°-90°	45.4	0.4
90°-100°	548.9	5.2
100°-110°	1478.5	14.1
110°-120°	1551.7	14.8
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°	866.1	8.3
0°-40°	1395.9	13.3
0°-60°	2378.8	22.7
0°-90°	2923.9	27.9
90°-120°	3579.1	34.1
90°-150°	6584.0	62.7
90°-180°	7574.0	72.1
0°-180°	10498.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1151	1138	1142	1139	1137	109
15°	1096	1082	1083	1081	1079	309
25°	1002	985	983	977	980	460
35°	861	849	849	841	844	538
45°	692	686	683	681	680	534
55°	513	512	513	506	505	458
65°	325	335	341	328	317	322
75°	150	164	172	160	146	160
85°	25	33	37	35	33	33
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°	1148.1	1148.1	1148.1	1148.1	1148.1
2.5°	1154.6	1145.1	1148.1	1145.6	1140.0
5°	1151.2	1138.3	1142.1	1139.0	1137.0
7.5°	1139.4	1127.6	1130.3	1127.1	1125.9
10°	1128.9	1117.1	1119.8	1115.7	1113.7
12.5°	1116.8	1104.1	1106.9	1102.8	1101.6
15°	1095.5	1081.7	1083.4	1081.3	1079.4
17.5°	1070.9	1056.8	1057.1	1053.9	1053.5
20°	1053.1	1038.2	1036.9	1032.9	1034.8
22.5°	1033.6	1018.0	1016.6	1011.0	1013.8
25°	1001.5	984.6	983.3	977.3	980.2
27.5°	964.2	947.6	947.6	939.2	942.4
30°	936.7	920.9	922.6	912.5	916.5
32.5°	907.6	893.3	894.2	884.2	888.2
35°	860.9	849.0	848.7	840.7	843.7
37.5°	813.1	802.6	801.0	796.3	797.1
40°	779.9	771.0	767.8	764.8	764.8
42.5°	745.1	737.0	733.8	731.6	730.8
45°	691.9	686.0	682.8	680.8	679.8
47.5°	639.3	633.8	631.0	629.6	628.6
50°	602.9	598.9	597.8	594.8	593.8
52.5°	566.5	564.1	563.0	559.2	558.2
55°	512.9	511.9	512.9	505.8	504.8
57.5°	457.0	458.6	461.9	452.3	449.9
60°	419.8	423.8	427.9	416.7	412.7
62.5°	381.8	388.1	393.9	381.0	375.5
65°	324.7	334.6	340.9	327.5	316.6
67.5°	269.7	282.0	289.5	275.1	262.8
70°	231.7	245.5	253.9	239.4	225.6
72.5°	198.5	213.9	220.7	207.1	193.2
75°	149.7	163.6	172.0	160.5	145.7
77.5°	106.2	119.3	126.2	116.3	104.0
80°	77.9	91.7	97.1	88.8	78.9
82.5°	55.2	66.7	70.4	65.4	58.7
85°	25.3	33.2	37.4	35.4	33.4
87.5°	7.1	13.8	19.0	19.3	20.1
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)