

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: P565047

Luminaire Tested: **SQ4-PW1-125U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565047
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-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

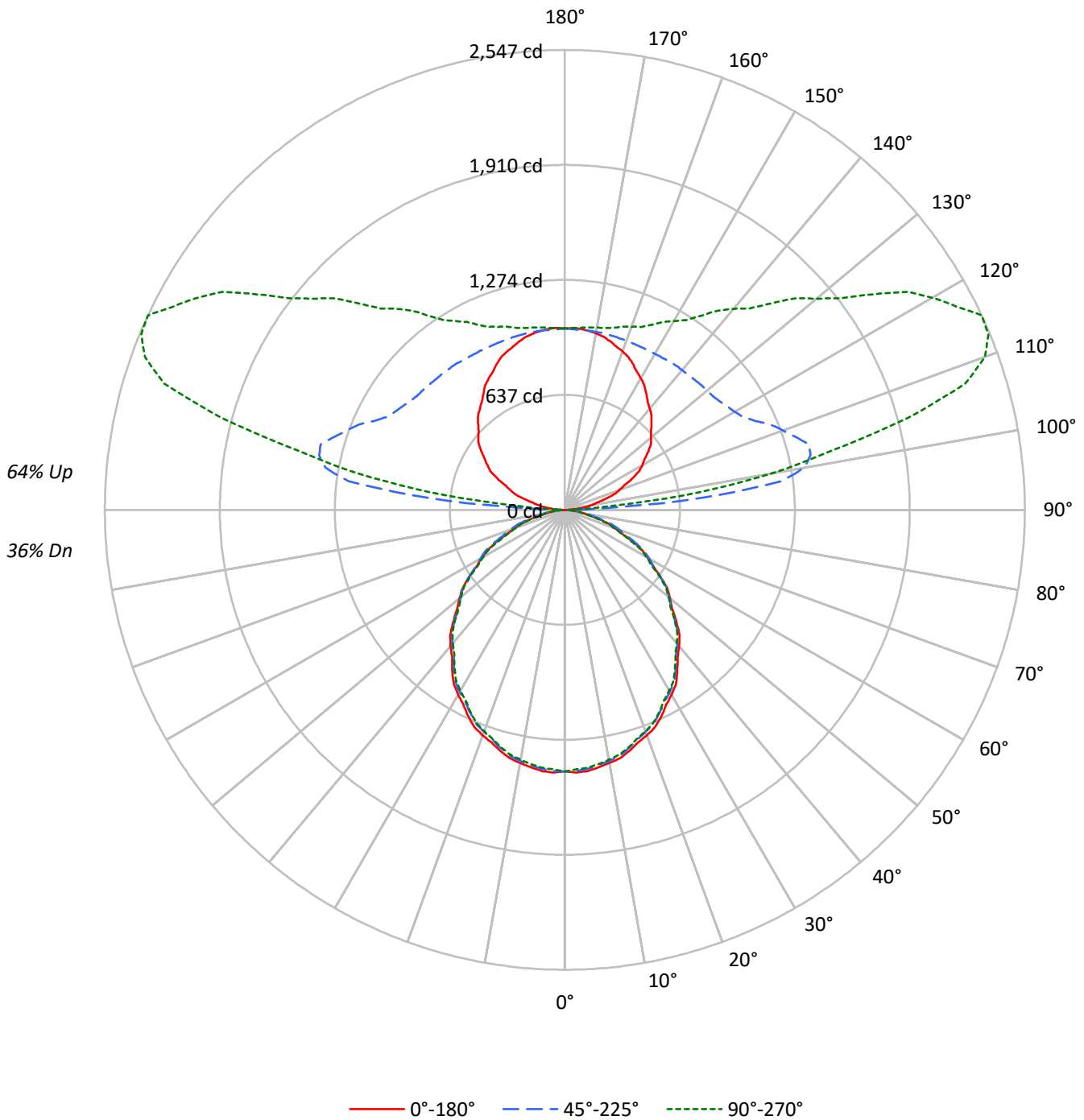
Lumens per Lamp: N/A
Luminaire Lumens: 10170.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	32	31	26
3	79	70	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	19	18	14
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8908	8908	8908
5°	8966	8895	8856
10°	8894	8823	8775
15°	8800	8703	8670
20°	8695	8562	8545
25°	8574	8417	8392
30°	8392	8266	8211
35°	8154	8039	7991
40°	7899	7776	7746
45°	7592	7492	7459
50°	7277	7216	7167
55°	6938	6938	6829
60°	6515	6640	6404
65°	5961	6258	5813
70°	5255	5760	5118
75°	4489	5155	4368
80°	3482	4339	3524
85°	2251	3331	2971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	1.3
10°-20°	385.0	3.8
20°-30°	571.2	5.6
30°-40°	668.3	6.6
40°-50°	665.3	6.5
50°-60°	574.5	5.6
60°-70°	413.6	4.1
70°-80°	216.9	2.1
80°-90°	56.1	0.6
90°-100°	469.8	4.6
100°-110°	1265.4	12.4
110°-120°	1328.0	13.1
120°-130°	1077.7	10.6
130°-140°	845.2	8.3
140°-150°	648.9	6.4
150°-160°	466.6	4.6
160°-170°	285.0	2.8
170°-180°	96.1	0.9
0°-30°	1092.6	10.7
0°-40°	1760.9	17.3
0°-60°	3000.7	29.5
0°-90°	3687.3	36.3
90°-120°	3063.3	30.1
90°-150°	5635.0	55.4
90°-180°	6483.0	63.7
0°-180°	10170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1452	1436	1441	1437	1434	138
15°	1382	1364	1367	1364	1362	390
25°	1263	1242	1240	1233	1236	581
35°	1086	1071	1071	1060	1064	679
45°	873	865	861	859	858	673
55°	647	646	647	638	637	577
65°	410	422	430	413	399	406
75°	189	206	217	202	184	202
85°	32	42	47	45	42	42
90°	3	8	15	17	17	6
95°	72	256	770	394	272	75
105°	234	364	1400	2094	1965	246
115°	413	506	1165	2252	2547	407
125°	564	648	1046	1769	2081	504
135°	679	758	1017	1427	1616	524
145°	786	847	1004	1220	1310	493
155°	892	924	995	1094	1130	410
165°	967	978	999	1039	1044	273
175°	1006	1004	1000	1014	1012	96
180°	1004	1004	1004	1004	1004	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.3	1448.3	1448.3	1448.3	1448.3
2.5°	1456.5	1444.5	1448.3	1445.1	1438.1
5°	1452.2	1435.9	1440.7	1436.8	1434.3
7.5°	1437.3	1422.4	1425.9	1421.7	1420.2
10°	1424.1	1409.1	1412.6	1407.4	1404.9
12.5°	1408.8	1392.8	1396.3	1391.1	1389.6
15°	1382.0	1364.5	1366.7	1364.0	1361.6
17.5°	1350.8	1333.1	1333.5	1329.4	1328.9
20°	1328.4	1309.7	1308.0	1302.9	1305.4
22.5°	1303.9	1284.2	1282.4	1275.4	1278.9
25°	1263.3	1242.1	1240.3	1232.8	1236.5
27.5°	1216.3	1195.4	1195.4	1184.8	1188.8
30°	1181.6	1161.7	1163.8	1151.1	1156.1
32.5°	1144.9	1126.9	1128.0	1115.4	1120.4
35°	1085.9	1071.0	1070.6	1060.5	1064.2
37.5°	1025.7	1012.5	1010.4	1004.5	1005.5
40°	983.8	972.6	968.5	964.7	964.7
42.5°	939.9	929.7	925.7	922.8	921.8
45°	872.8	865.3	861.3	858.8	857.5
47.5°	806.5	799.5	796.0	794.2	792.9
50°	760.5	755.5	754.1	750.3	749.0
52.5°	714.6	711.6	710.3	705.4	704.1
55°	647.0	645.7	647.0	638.0	636.8
57.5°	576.5	578.5	582.6	570.6	567.6
60°	529.6	534.6	539.8	525.6	520.6
62.5°	481.6	489.6	496.9	480.7	473.7
65°	409.6	422.1	430.0	413.1	399.4
67.5°	340.2	355.7	365.2	347.0	331.5
70°	292.2	309.7	320.3	302.0	284.6
72.5°	250.4	269.8	278.4	261.2	243.7
75°	188.9	206.3	216.9	202.5	183.8
77.5°	134.0	150.5	159.3	146.6	131.2
80°	98.3	115.7	122.5	112.0	99.5
82.5°	69.7	84.1	88.8	82.5	74.0
85°	31.9	41.9	47.2	44.6	42.1
87.5°	8.7	16.7	22.5	22.7	23.7
90°	2.6	7.6	15.4	16.6	16.6
92.5°	31.2	110.3	218.0	104.9	72.9
95°	71.6	255.5	770.1	393.8	272.5
97.5°	114.4	292.5	1207.9	1009.1	760.9
100°	147.1	307.2	1347.0	1409.4	1169.2
102.5°	178.8	327.9	1393.1	1709.2	1512.1
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.3	402.4	1339.9	2291.4	2324.6
110°	321.1	431.2	1285.6	2352.7	2474.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	460.0	1233.4	2339.1	2538.5
115°	413.2	505.8	1165.4	2251.8	2547.0
117.5°	463.6	550.4	1112.7	2112.3	2441.0
120°	496.3	580.2	1086.1	2012.2	2350.0
122.5°	525.0	607.8	1066.6	1909.9	2246.6
125°	564.1	648.0	1046.4	1768.6	2081.3
127.5°	601.8	684.3	1033.6	1644.0	1923.2
130°	624.3	706.8	1028.5	1572.6	1817.8
132.5°	646.8	728.3	1023.4	1509.8	1734.9
135°	679.3	758.1	1017.0	1426.8	1615.7
137.5°	710.2	785.8	1013.7	1356.5	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.8	1008.6	1272.7	1390.8
145°	785.5	846.7	1004.2	1219.9	1309.9
147.5°	819.2	872.5	999.9	1175.4	1246.2
150°	841.7	888.0	997.8	1147.5	1206.3
152.5°	862.2	902.5	996.8	1124.8	1172.6
155°	891.6	924.2	995.2	1094.5	1129.6
157.5°	917.5	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.2	965.4	997.6	1050.5	1063.0
165°	967.1	978.4	999.1	1038.9	1043.9
167.5°	982.5	989.0	1000.4	1029.8	1031.8
170°	992.7	995.2	1000.4	1024.7	1024.7
172.5°	998.8	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.2	1000.4	1014.4	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.3
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)