

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: P564798

Luminaire Tested: **SQ4-PW1-075U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564798
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PW1-075U-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

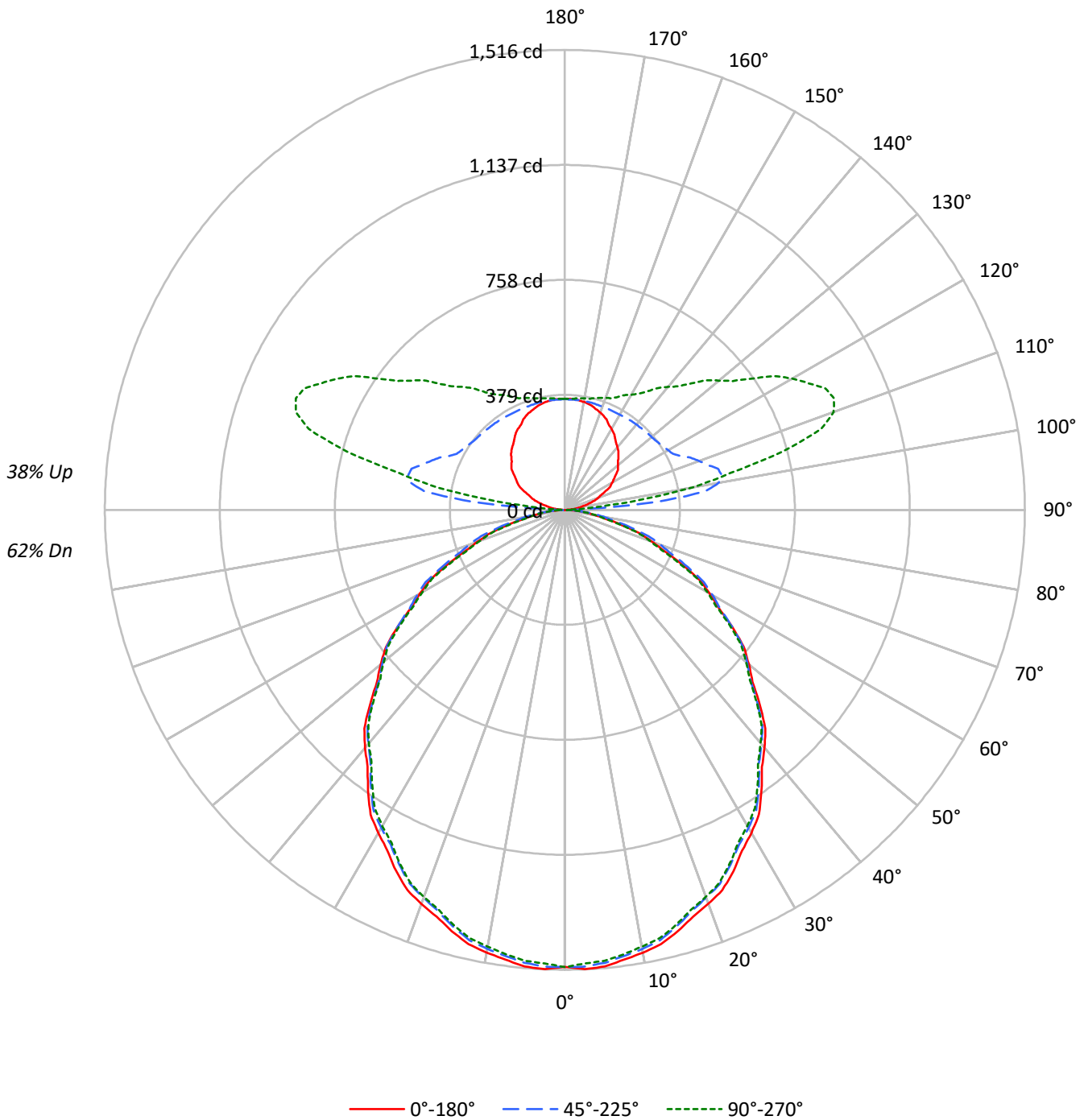
Lumens per Lamp: N/A
Luminaire Lumens: 6217.6 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 62.1
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13904	13904	13904
5°	13994	13884	13822
10°	13882	13771	13696
15°	13735	13583	13532
20°	13571	13363	13336
25°	13382	13138	13098
30°	13098	12900	12816
35°	12726	12547	12473
40°	12329	12138	12090
45°	11850	11695	11643
50°	11359	11263	11187
55°	10829	10829	10658
60°	10167	10365	9996
65°	9304	9769	9073
70°	8203	8991	7987
75°	7005	8046	6816
80°	5430	6774	5504
85°	3515	5198	4637



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	2.3
10°-20°	400.7	6.4
20°-30°	594.3	9.6
30°-40°	695.4	11.2
40°-50°	692.3	11.1
50°-60°	597.8	9.6
60°-70°	430.3	6.9
70°-80°	225.7	3.6
80°-90°	56.9	0.9
90°-100°	172.5	2.8
100°-110°	474.5	7.6
110°-120°	489.8	7.9
120°-130°	392.4	6.3
130°-140°	308.2	5.0
140°-150°	236.2	3.8
150°-160°	169.8	2.7
160°-170°	103.8	1.7
170°-180°	35.0	0.6
0°-30°	1136.9	18.3
0°-40°	1832.3	29.5
0°-60°	3122.4	50.2
0°-90°	3835.2	61.7
90°-120°	1136.8	18.3
90°-150°	2073.6	33.4
90°-180°	2382.0	38.3
0°-180°	6217.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1507	1507	1507	1507	1507	
5°	1511	1494	1499	1495	1492	143
15°	1438	1420	1422	1419	1417	405
25°	1314	1292	1291	1283	1287	604
35°	1130	1114	1114	1104	1107	706
45°	908	900	896	894	892	701
55°	673	672	673	664	663	601
65°	426	439	448	430	416	422
75°	196	215	226	211	191	211
85°	33	44	49	46	44	44
90°	1	3	5	7	7	3
95°	26	94	305	130	83	27
105°	85	130	523	796	743	89
115°	150	183	419	835	948	148
125°	207	236	380	644	754	185
135°	250	277	370	520	589	193
145°	289	308	364	444	478	181
155°	327	337	362	399	410	150
165°	353	358	363	378	380	100
175°	366	366	364	369	368	35
180°	366	366	366	366	366	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.0	1507.0	1507.0	1507.0	1507.0
2.5°	1515.5	1503.1	1507.0	1503.7	1496.4
5°	1511.0	1494.1	1499.1	1495.0	1492.4
7.5°	1495.6	1480.0	1483.7	1479.4	1477.8
10°	1481.8	1466.2	1469.9	1464.5	1461.9
12.5°	1465.9	1449.3	1452.9	1447.5	1446.0
15°	1438.0	1419.8	1422.1	1419.3	1416.7
17.5°	1405.6	1387.2	1387.5	1383.3	1382.8
20°	1382.2	1362.7	1361.0	1355.7	1358.3
22.5°	1356.7	1336.2	1334.4	1327.1	1330.7
25°	1314.5	1292.4	1290.6	1282.7	1286.6
27.5°	1265.6	1243.8	1243.9	1232.8	1237.0
30°	1229.5	1208.8	1210.9	1197.8	1203.0
32.5°	1191.3	1172.6	1173.8	1160.6	1165.8
35°	1129.9	1114.4	1114.0	1103.5	1107.4
37.5°	1067.3	1053.5	1051.3	1045.3	1046.3
40°	1023.7	1012.0	1007.8	1003.8	1003.8
42.5°	978.0	967.4	963.2	960.2	959.2
45°	908.2	900.4	896.3	893.6	892.3
47.5°	839.2	831.9	828.3	826.4	825.1
50°	791.4	786.2	784.7	780.7	779.4
52.5°	743.6	740.4	739.0	734.0	732.7
55°	673.2	671.9	673.2	663.9	662.6
57.5°	599.9	602.0	606.3	593.7	590.6
60°	551.0	556.2	561.7	546.9	541.7
62.5°	501.1	509.4	517.0	500.1	492.9
65°	426.2	439.2	447.5	429.9	415.6
67.5°	354.0	370.1	380.0	361.1	345.0
70°	304.1	322.2	333.3	314.3	296.1
72.5°	260.5	280.8	289.7	271.8	253.6
75°	196.5	214.7	225.7	210.7	191.2
77.5°	139.4	156.6	165.7	152.6	136.5
80°	102.2	120.4	127.5	116.5	103.6
82.5°	72.5	87.6	92.4	85.8	77.0
85°	33.2	43.6	49.1	46.4	43.8
87.5°	8.7	16.4	21.3	21.6	22.6
90°	0.8	3.1	5.4	7.0	7.0
92.5°	10.7	45.9	79.5	30.5	25.1
95°	25.7	94.1	305.0	130.4	83.3
97.5°	41.9	104.4	465.4	358.6	253.0
100°	53.7	110.7	515.9	520.7	424.8
102.5°	64.9	118.3	528.9	646.0	558.0
105°	84.8	130.5	522.9	796.3	743.0
107.5°	103.8	145.5	493.1	869.9	885.7
110°	117.5	155.5	470.7	888.2	943.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.9	166.8	448.3	876.4	959.8
115°	150.2	182.9	419.4	835.1	947.7
117.5°	169.5	199.6	401.0	777.1	904.4
120°	181.3	210.2	392.9	733.6	865.2
122.5°	191.9	220.8	387.3	695.5	820.4
125°	207.0	235.9	380.5	643.6	753.9
127.5°	221.3	248.8	376.0	600.4	697.1
130°	228.8	256.9	373.5	574.7	662.9
132.5°	237.5	265.6	371.6	552.1	631.8
135°	249.8	277.1	369.6	520.5	589.0
137.5°	261.3	286.7	367.9	495.0	551.5
140°	270.0	293.6	367.2	478.1	529.1
142.5°	277.5	299.2	366.0	463.0	506.7
145°	288.7	308.4	364.1	443.5	477.7
147.5°	300.6	317.7	363.2	426.2	453.6
150°	308.1	323.3	362.6	416.7	438.0
152.5°	315.0	329.0	362.0	408.6	426.2
155°	326.8	337.4	361.8	398.6	410.0
157.5°	335.3	344.0	361.8	390.5	398.4
160°	341.6	348.4	361.8	386.1	392.1
162.5°	346.5	352.2	362.4	382.3	387.2
165°	353.2	357.8	363.4	378.2	380.5
167.5°	357.9	361.4	364.1	374.7	375.3
170°	361.0	363.3	364.1	373.5	373.5
172.5°	363.5	364.6	364.1	371.6	371.0
175°	365.7	366.4	364.1	368.8	368.0
177.5°	366.3	366.3	363.8	367.5	366.3
180°	365.7	365.7	365.7	365.7	365.7

(END OF REPORT)