

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: P563454

Luminaire Tested: **SQ4-PP3-075U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563454
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

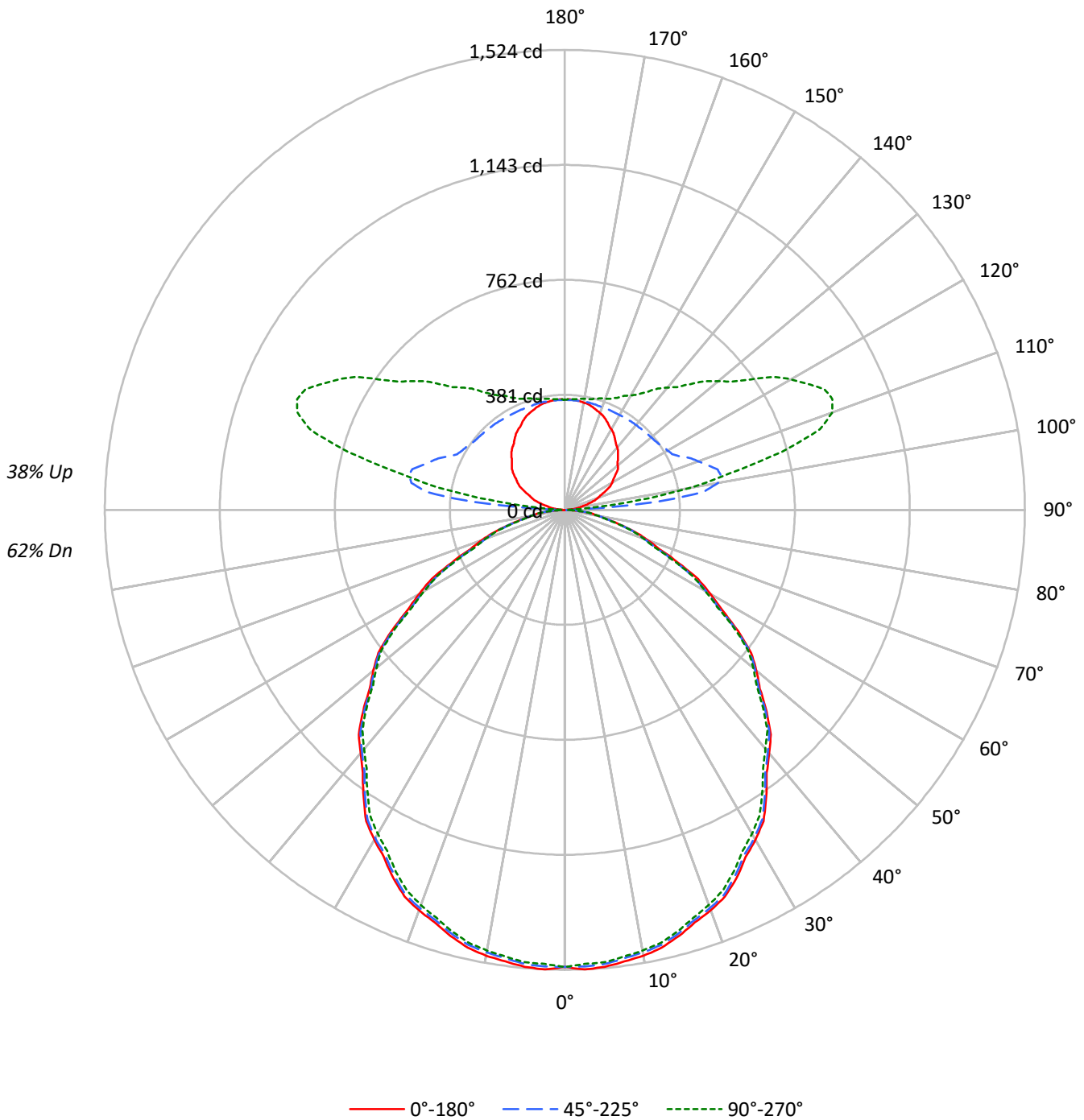
Lumens per Lamp: N/A
Luminaire Lumens: 6259.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	93	89	94	90	87	84	79	77	75	69	67	66	60	58	57	53
2	92	84	78	73	86	79	74	69	70	66	62	61	58	55	53	51	49	45
3	84	74	67	61	78	70	63	58	62	57	52	54	50	47	47	44	42	38
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	39	36	33
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	31	28	25
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	28	25	22
8	56	44	36	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13974	13974	13974
5°	14076	13991	13941
10°	14053	13953	13892
15°	13960	13884	13808
20°	13867	13790	13685
25°	13702	13609	13473
30°	13449	13379	13209
35°	13098	13008	12843
40°	12679	12598	12455
45°	12333	12245	12124
50°	11889	11813	11699
55°	11274	11125	11039
60°	10263	9970	9920
65°	9042	8665	8636
70°	7807	7483	7483
75°	6720	6623	6531
80°	5924	5993	5855
85°	4637	5060	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	2.3
10°-20°	409.0	6.5
20°-30°	612.6	9.8
30°-40°	718.5	11.5
40°-50°	720.7	11.5
50°-60°	614.8	9.8
60°-70°	401.0	6.4
70°-80°	201.2	3.2
80°-90°	56.6	0.9
90°-100°	172.5	2.8
100°-110°	474.5	7.6
110°-120°	489.8	7.8
120°-130°	392.4	6.3
130°-140°	308.2	4.9
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°	1164.7	18.6
0°-40°	1883.2	30.1
0°-60°	3218.8	51.4
0°-90°	3877.6	61.9
90°-120°	1136.8	18.2
90°-150°	2073.6	33.1
90°-180°	2382.0	38.1
0°-180°	6259.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1520	1506	1511	1505	1505	144
15°	1462	1447	1454	1448	1446	412
25°	1346	1330	1337	1325	1324	619
35°	1163	1151	1155	1142	1140	726
45°	945	939	938	929	929	728
55°	701	698	692	688	686	623
65°	414	406	397	394	396	413
75°	188	188	186	184	183	204
85°	44	48	48	48	48	51
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°	1514.6	1514.6	1514.6	1514.6	1514.6
2.5°	1524.2	1511.7	1514.6	1512.4	1506.1
5°	1519.9	1505.7	1510.7	1505.3	1505.3
7.5°	1509.6	1494.0	1499.0	1493.7	1493.4
10°	1500.0	1484.5	1489.4	1484.1	1482.8
12.5°	1486.2	1470.7	1476.7	1470.3	1470.0
15°	1461.5	1447.3	1453.6	1448.2	1445.6
17.5°	1433.7	1418.1	1425.7	1418.2	1417.2
20°	1412.4	1396.8	1404.5	1393.8	1393.8
22.5°	1386.9	1371.4	1380.0	1366.2	1366.2
25°	1346.0	1330.5	1336.8	1324.8	1323.5
27.5°	1297.5	1282.1	1288.7	1275.2	1274.9
30°	1262.4	1248.1	1255.8	1241.2	1239.9
32.5°	1224.2	1210.9	1216.5	1201.9	1200.6
35°	1162.9	1151.2	1154.9	1141.6	1140.3
37.5°	1098.3	1086.4	1090.6	1079.2	1078.7
40°	1052.7	1044.9	1046.0	1036.7	1034.1
42.5°	1010.2	1001.4	1002.5	993.2	992.7
45°	945.2	938.7	938.5	929.2	929.2
47.5°	876.1	871.2	869.8	862.0	861.8
50°	828.3	824.4	823.0	816.4	815.1
52.5°	778.4	776.6	772.1	766.5	766.2
55°	700.9	698.3	691.6	687.6	686.3
57.5°	616.7	611.5	604.0	598.2	599.2
60°	556.2	551.0	540.3	537.6	537.6
62.5°	497.8	491.6	480.8	477.1	479.2
65°	414.2	406.4	396.9	394.3	395.6
67.5°	338.2	331.2	321.0	321.0	319.9
70°	289.4	285.5	277.4	277.4	277.4
72.5°	245.8	244.0	238.1	238.1	237.1
75°	188.5	188.5	185.8	184.5	183.2
77.5°	141.2	141.8	140.4	139.1	136.7
80°	111.5	114.1	112.8	111.5	110.2
82.5°	83.9	86.5	86.3	83.9	83.6
85°	43.8	47.7	47.8	47.8	47.8
87.5°	11.8	16.4	18.1	18.4	19.5
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)