

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: P564774

Luminaire Tested: **SQ4-PW1-075U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564774
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-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

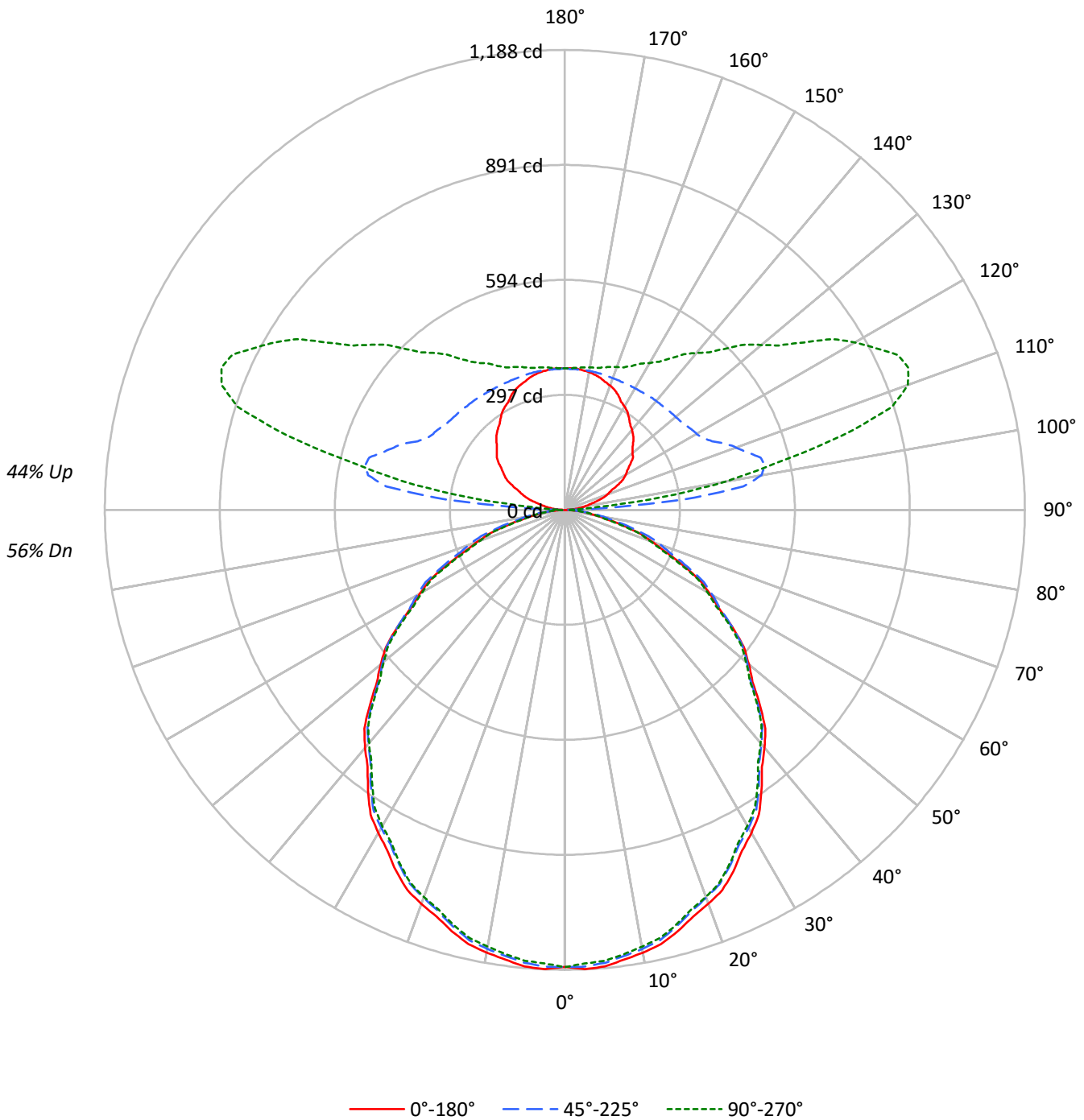
Lumens per Lamp: N/A
Luminaire Lumens: 5387.9 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61	56
1	99	95	91	88	92	88	85	82	76	74	71	65	63	61	55	53	52	47
2	90	83	77	72	84	77	72	67	67	63	59	57	54	51	48	46	44	40
3	83	73	66	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	60	53	48	52	47	43	45	41	37	38	35	32	29
5	69	58	49	43	64	54	47	41	47	41	37	40	36	32	34	31	28	25
6	64	52	44	38	59	49	41	36	42	37	32	37	32	28	31	28	25	22
7	59	47	39	33	55	44	37	32	38	33	28	33	29	25	29	25	22	20
8	55	43	35	29	51	40	33	28	35	29	25	30	26	23	26	23	20	18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18	16
10	48	36	28	24	44	34	27	22	30	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10895	10895	10895
5°	10966	10879	10831
10°	10879	10791	10733
15°	10763	10643	10604
20°	10634	10471	10451
25°	10486	10295	10263
30°	10265	10109	10043
35°	9972	9833	9774
40°	9662	9511	9474
45°	9286	9163	9123
50°	8901	8826	8767
55°	8485	8485	8352
60°	7968	8121	7833
65°	7292	7654	7110
70°	6428	7046	6258
75°	5490	6306	5340
80°	4256	5308	4314
85°	2752	4076	3631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	2.1
10°-20°	314.0	5.8
20°-30°	465.7	8.6
30°-40°	544.9	10.1
40°-50°	542.5	10.1
50°-60°	468.5	8.7
60°-70°	337.2	6.3
70°-80°	176.8	3.3
80°-90°	44.8	0.8
90°-100°	172.5	3.2
100°-110°	474.5	8.8
110°-120°	489.8	9.1
120°-130°	392.4	7.3
130°-140°	308.2	5.7
140°-150°	236.2	4.4
150°-160°	169.8	3.2
160°-170°	103.8	1.9
170°-180°	35.0	0.6
0°-30°	890.9	16.5
0°-40°	1435.8	26.6
0°-60°	2446.7	45.4
0°-90°	3005.6	55.8
90°-120°	1136.8	21.1
90°-150°	2073.6	38.5
90°-180°	2382.0	44.2
0°-180°	5387.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1184	1171	1175	1172	1170	112
15°	1127	1113	1114	1112	1110	318
25°	1030	1013	1011	1005	1008	474
35°	885	873	873	865	868	554
45°	712	706	702	700	699	549
55°	528	526	528	520	519	471
65°	334	344	351	337	326	331
75°	154	168	177	165	150	165
85°	26	34	38	36	34	34
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°	1180.9	1180.9	1180.9	1180.9	1180.9
2.5°	1187.6	1177.8	1180.9	1178.3	1172.6
5°	1184.1	1170.8	1174.7	1171.5	1169.5
7.5°	1172.0	1159.8	1162.6	1159.3	1158.0
10°	1161.2	1149.0	1151.8	1147.6	1145.6
12.5°	1148.7	1135.7	1138.5	1134.3	1133.1
15°	1126.8	1112.6	1114.3	1112.2	1110.2
17.5°	1101.4	1087.0	1087.3	1084.0	1083.5
20°	1083.1	1067.9	1066.5	1062.4	1064.4
22.5°	1063.2	1047.1	1045.7	1039.9	1042.8
25°	1030.1	1012.8	1011.3	1005.2	1008.2
27.5°	991.8	974.7	974.7	966.0	969.3
30°	963.5	947.2	948.9	938.6	942.7
32.5°	933.5	918.9	919.8	909.5	913.5
35°	885.4	873.2	873.0	864.7	867.8
37.5°	836.3	825.5	823.8	819.1	819.9
40°	802.2	793.0	789.7	786.6	786.6
42.5°	766.4	758.1	754.8	752.5	751.6
45°	711.7	705.6	702.3	700.2	699.2
47.5°	657.6	651.9	649.0	647.6	646.5
50°	620.1	616.1	614.9	611.8	610.8
52.5°	582.7	580.2	579.1	575.1	574.1
55°	527.5	526.5	527.5	520.2	519.2
57.5°	470.1	471.7	475.1	465.2	462.8
60°	431.8	435.9	440.1	428.6	424.5
62.5°	392.7	399.2	405.2	391.9	386.2
65°	334.0	344.2	350.6	336.9	325.7
67.5°	277.4	290.0	297.8	282.9	270.3
70°	238.3	252.5	261.2	246.3	232.0
72.5°	204.1	220.0	227.0	213.0	198.7
75°	154.0	168.2	176.9	165.1	149.8
77.5°	109.2	122.7	129.9	119.6	107.0
80°	80.1	94.4	99.9	91.3	81.2
82.5°	56.8	68.6	72.4	67.3	60.3
85°	26.0	34.2	38.5	36.4	34.3
87.5°	6.8	13.0	16.9	17.2	18.0
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)