

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: P563430

Luminaire Tested: **SQ4-PP3-075U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563430
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-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

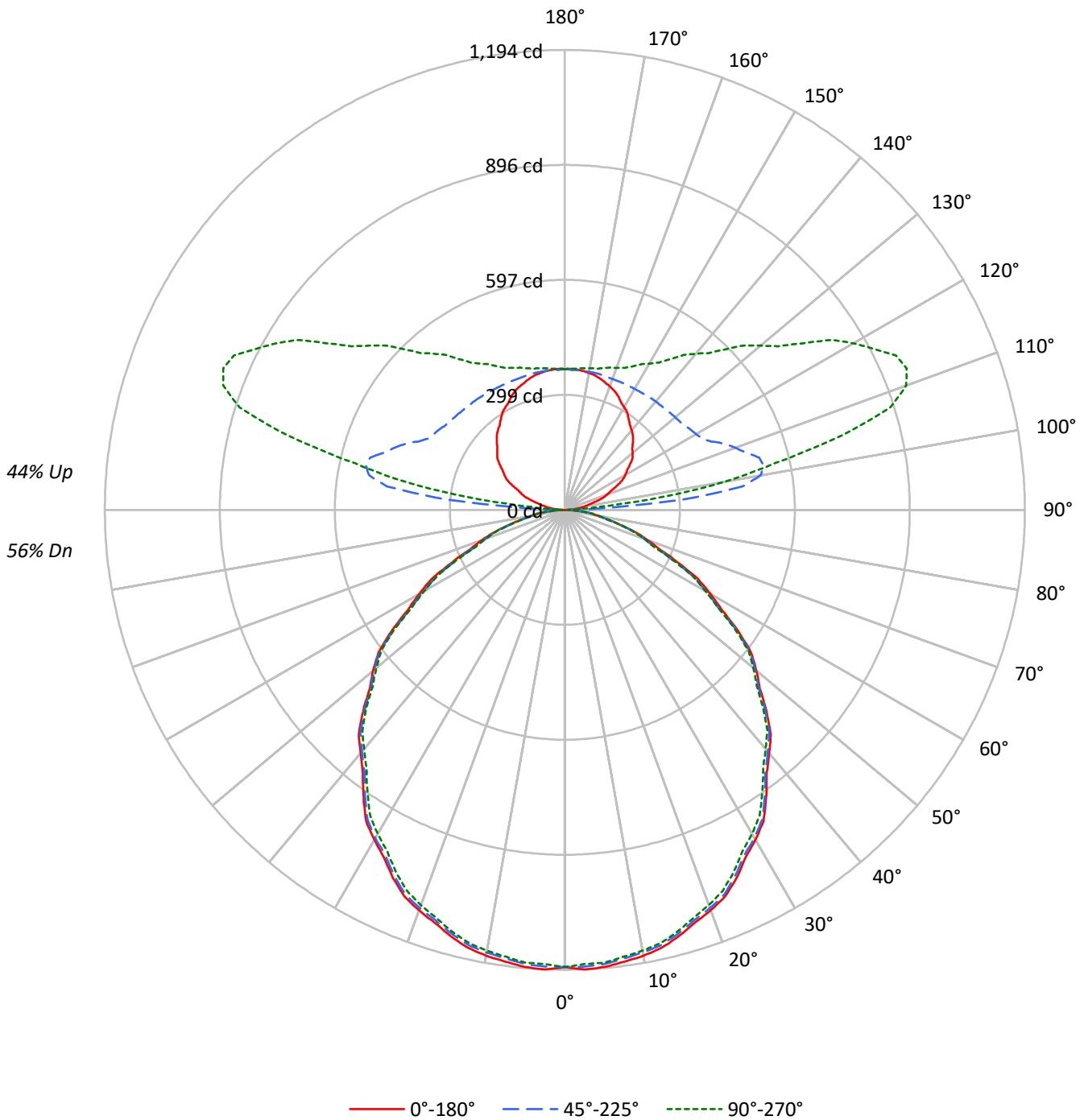
Lumens per Lamp: N/A
Luminaire Lumens: 5421.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10951	10951	10951
5°	11031	10964	10925
10°	11013	10934	10885
15°	10940	10879	10820
20°	10867	10806	10724
25°	10738	10664	10558
30°	10540	10484	10351
35°	10263	10193	10065
40°	9935	9872	9759
45°	9663	9595	9501
50°	9317	9257	9168
55°	8834	8718	8651
60°	8043	7813	7774
65°	7084	6789	6768
70°	6118	5864	5864
75°	5265	5190	5119
80°	4644	4697	4585
85°	3631	3959	3959



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	2.1
10°-20°	320.5	5.9
20°-30°	480.0	8.9
30°-40°	563.0	10.4
40°-50°	564.8	10.4
50°-60°	481.8	8.9
60°-70°	314.2	5.8
70°-80°	157.6	2.9
80°-90°	44.5	0.8
90°-100°	172.5	3.2
100°-110°	474.5	8.8
110°-120°	489.8	9.0
120°-130°	392.4	7.2
130°-140°	308.2	5.7
140°-150°	236.2	4.4
150°-160°	169.8	3.1
160°-170°	103.8	1.9
170°-180°	35.0	0.6
0°-30°	912.7	16.8
0°-40°	1475.7	27.2
0°-60°	2522.3	46.5
0°-90°	3038.7	56.1
90°-120°	1136.8	21.0
90°-150°	2073.6	38.3
90°-180°	2382.0	43.9
0°-180°	5421.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1191	1180	1184	1180	1180	113
15°	1145	1134	1139	1135	1133	323
25°	1055	1043	1048	1038	1037	485
35°	911	902	905	895	894	569
45°	741	736	735	728	728	570
55°	549	547	542	539	538	488
65°	324	318	311	309	310	324
75°	148	148	146	145	144	160
85°	34	37	37	37	37	40
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°	1186.9	1186.9	1186.9	1186.9	1186.9
2.5°	1194.4	1184.6	1186.9	1185.1	1180.2
5°	1191.1	1179.9	1183.8	1179.6	1179.6
7.5°	1182.9	1170.7	1174.6	1170.5	1170.3
10°	1175.5	1163.2	1167.1	1162.9	1161.9
12.5°	1164.6	1152.4	1157.1	1152.1	1151.9
15°	1145.3	1134.1	1139.0	1134.8	1132.8
17.5°	1123.4	1111.2	1117.2	1111.4	1110.5
20°	1106.8	1094.6	1100.6	1092.2	1092.2
22.5°	1086.8	1074.6	1081.4	1070.6	1070.6
25°	1054.8	1042.6	1047.5	1038.1	1037.1
27.5°	1016.7	1004.7	1009.8	999.2	999.0
30°	989.3	978.1	984.1	972.6	971.6
32.5°	959.3	948.9	953.3	941.8	940.8
35°	911.2	902.1	905.0	894.6	893.6
37.5°	860.7	851.3	854.6	845.7	845.3
40°	824.9	818.8	819.7	812.4	810.3
42.5°	791.6	784.7	785.6	778.3	777.9
45°	740.6	735.6	735.4	728.2	728.2
47.5°	686.5	682.7	681.6	675.5	675.3
50°	649.1	646.0	644.9	639.7	638.7
52.5°	610.0	608.6	605.0	600.6	600.4
55°	549.2	547.2	542.0	538.8	537.8
57.5°	483.3	479.2	473.3	468.7	469.6
60°	435.9	431.8	423.4	421.3	421.3
62.5°	390.1	385.2	376.8	373.9	375.5
65°	324.5	318.4	311.0	309.0	310.0
67.5°	265.0	259.6	251.5	251.5	250.7
70°	226.8	223.7	217.4	217.4	217.4
72.5°	192.6	191.2	186.6	186.6	185.8
75°	147.7	147.7	145.6	144.6	143.6
77.5°	110.7	111.1	110.1	109.0	107.1
80°	87.4	89.4	88.4	87.4	86.3
82.5°	65.7	67.8	67.6	65.7	65.5
85°	34.3	37.4	37.4	37.4	37.4
87.5°	9.3	13.0	14.4	14.7	15.5
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)