

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: P562766

Luminaire Tested: **SQ4-PC3-075U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562766
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-100D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

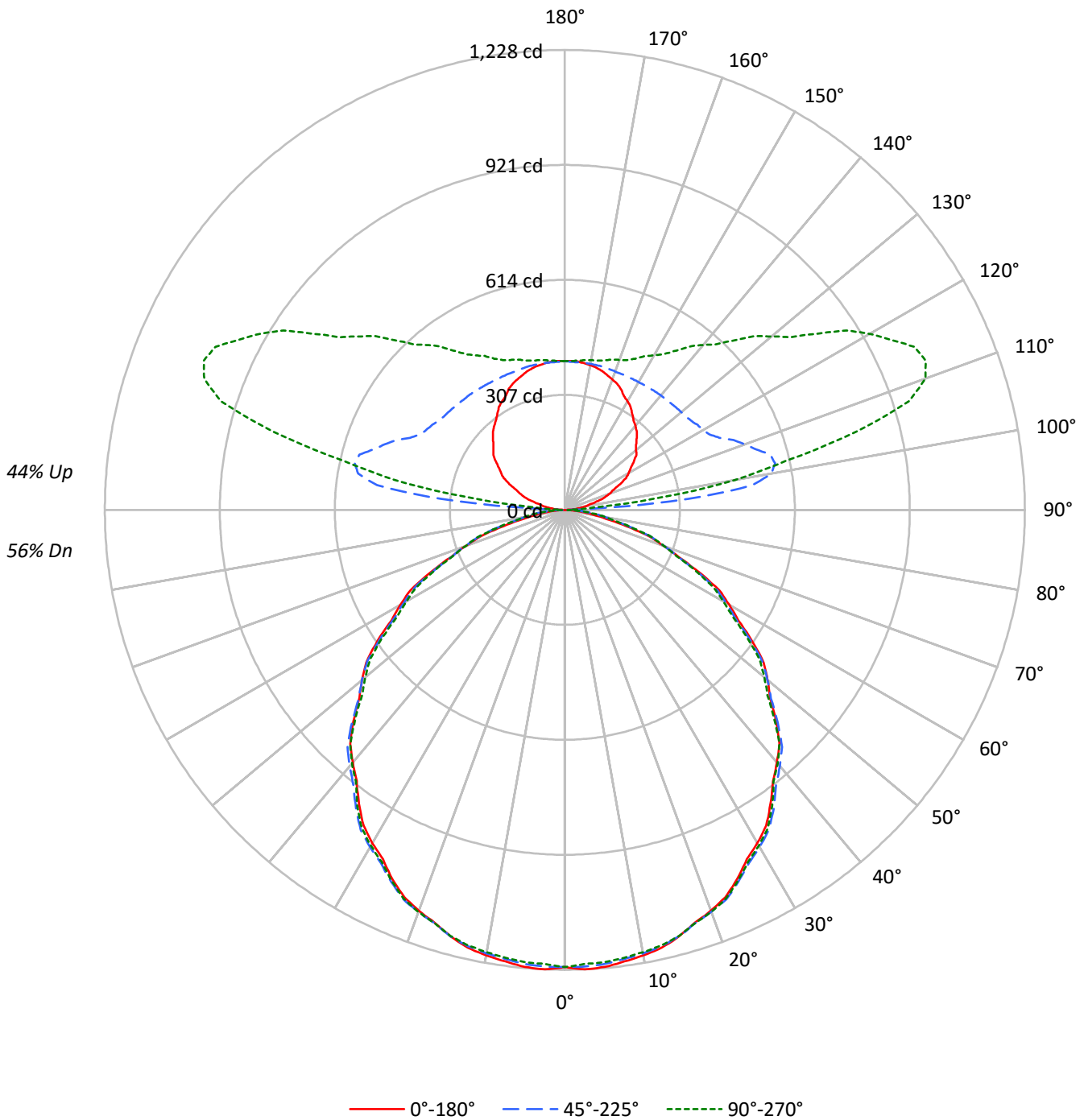
Lumens per Lamp: N/A
Luminaire Lumens: 5920.7 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	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	88	85	82	76	74	72	65	63	62	55	54	52	48				
2	90	83	77	72	84	77	72	67	67	63	59	57	54	52	48	46	44	40				
3	82	73	65	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34				
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32	29				
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28	25				
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	28	25	22				
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19				
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17				
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	16				
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11263	11263	11263
5°	11348	11275	11232
10°	11320	11268	11236
15°	11260	11260	11250
20°	11187	11220	11220
25°	11081	11161	11127
30°	10946	11079	11031
35°	10783	10949	10872
40°	10605	10755	10646
45°	10412	10487	10323
50°	10141	10141	9978
55°	9819	9691	9545
60°	9344	9156	9010
65°	8636	8464	8390
70°	7561	7623	7594
75°	6085	6730	6769
80°	4325	5706	5765
85°	2636	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	2.0
10°-20°	331.5	5.6
20°-30°	502.1	8.5
30°-40°	601.9	10.2
40°-50°	613.7	10.4
50°-60°	535.8	9.0
60°-70°	383.6	6.5
70°-80°	197.6	3.3
80°-90°	51.0	0.9
90°-100°	187.4	3.2
100°-110°	515.5	8.7
110°-120°	532.1	9.0
120°-130°	426.3	7.2
130°-140°	334.8	5.7
140°-150°	256.6	4.3
150°-160°	184.5	3.1
160°-170°	112.8	1.9
170°-180°	38.0	0.6
0°-30°	949.2	16.0
0°-40°	1551.1	26.2
0°-60°	2700.6	45.6
0°-90°	3332.7	56.3
90°-120°	1235.0	20.9
90°-150°	2252.7	38.0
90°-180°	2588.0	43.7
0°-180°	5920.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1225	1213	1217	1214	1213	116
15°	1179	1169	1179	1179	1178	332
25°	1088	1081	1096	1093	1093	501
35°	957	955	972	965	965	599
45°	798	796	804	793	791	614
55°	610	603	602	593	593	544
65°	396	387	388	384	384	391
75°	171	178	189	190	190	184
85°	25	38	45	46	45	34
90°	1	3	6	8	8	3
95°	28	102	331	142	90	29
105°	92	142	568	865	807	97
115°	163	199	456	907	1030	161
125°	225	256	413	699	819	201
135°	271	301	402	566	640	209
145°	314	335	396	482	519	197
155°	355	367	393	433	446	163
165°	384	389	395	411	413	108
175°	397	398	396	401	400	38
180°	397	397	397	397	397	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.8	1220.8	1220.8	1220.8	1220.8
2.5°	1228.0	1217.4	1220.8	1217.9	1213.5
5°	1225.3	1213.1	1217.4	1214.0	1212.8
7.5°	1216.5	1204.3	1209.9	1207.6	1206.5
10°	1208.3	1196.2	1202.7	1200.4	1199.3
12.5°	1197.5	1186.2	1193.6	1191.4	1191.1
15°	1178.9	1169.0	1178.9	1178.9	1177.8
17.5°	1155.7	1146.6	1157.2	1157.9	1157.2
20°	1139.4	1129.4	1142.8	1141.7	1142.8
22.5°	1119.5	1111.3	1125.6	1122.7	1123.8
25°	1088.5	1080.8	1096.4	1093.0	1093.0
27.5°	1051.9	1046.4	1063.4	1059.8	1059.8
30°	1027.5	1021.9	1039.9	1035.4	1035.4
32.5°	1000.3	996.6	1013.7	1008.3	1008.3
35°	957.4	955.2	972.1	965.3	965.3
37.5°	913.1	911.1	926.4	918.2	915.6
40°	880.5	879.4	893.0	883.9	883.9
42.5°	848.0	846.9	858.6	847.7	847.7
45°	798.0	795.8	803.7	793.4	791.2
47.5°	743.5	741.3	746.2	735.1	734.0
50°	706.5	704.2	706.5	696.3	695.2
52.5°	668.5	664.5	664.9	654.7	654.5
55°	610.4	602.6	602.5	593.4	593.4
57.5°	548.9	538.7	539.6	531.9	530.8
60°	506.4	495.3	496.2	489.4	488.3
62.5°	464.8	452.0	454.6	446.9	446.7
65°	395.6	386.8	387.7	384.3	384.3
67.5°	329.2	321.0	326.9	324.2	324.0
70°	280.3	274.8	282.6	282.6	281.5
72.5°	235.1	234.9	244.6	244.6	245.3
75°	170.7	178.4	188.8	189.9	189.9
77.5°	113.9	127.6	139.0	139.5	139.3
80°	81.4	96.9	107.4	109.6	108.5
82.5°	55.2	71.5	80.3	82.5	81.4
85°	24.9	38.1	45.2	46.3	45.2
87.5°	7.4	15.9	19.3	19.6	17.8
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	49.8	86.4	33.2	27.2
95°	27.9	102.3	331.3	141.7	90.4
97.5°	45.5	113.4	505.6	389.6	274.9
100°	58.3	120.3	560.4	565.6	461.5
102.5°	70.5	128.5	574.6	701.8	606.2
105°	92.1	141.7	568.0	865.1	807.2
107.5°	112.8	158.0	535.7	945.1	962.2
110°	127.6	169.0	511.4	964.9	1024.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	181.2	487.0	952.1	1042.7
115°	163.1	198.7	455.6	907.2	1029.5
117.5°	184.1	216.8	435.6	844.2	982.5
120°	196.9	228.4	426.9	796.9	939.9
122.5°	208.4	239.8	420.8	755.5	891.2
125°	224.8	256.2	413.3	699.2	819.1
127.5°	240.4	270.3	408.4	652.2	757.4
130°	248.5	279.1	405.7	624.3	720.2
132.5°	258.0	288.6	403.7	599.7	686.4
135°	271.3	301.1	401.5	565.5	639.9
137.5°	283.8	311.4	399.6	537.8	599.1
140°	293.3	318.9	399.0	519.4	574.8
142.5°	301.4	325.1	397.6	503.0	550.4
145°	313.6	335.1	395.6	481.8	519.0
147.5°	326.6	345.1	394.6	463.0	492.8
150°	334.7	351.3	393.9	452.7	475.9
152.5°	342.2	357.4	393.2	443.9	463.0
155°	355.0	366.6	393.0	433.1	445.5
157.5°	364.3	373.7	393.0	424.2	432.8
160°	371.1	378.5	393.0	419.4	426.0
162.5°	376.5	382.6	393.7	415.3	420.6
165°	383.7	388.7	394.7	410.9	413.3
167.5°	388.8	392.6	395.6	407.1	407.8
170°	392.2	394.7	395.6	405.7	405.7
172.5°	394.9	396.1	395.6	403.7	403.0
175°	397.3	398.1	395.6	400.6	399.8
177.5°	397.9	397.9	395.2	399.3	397.9
180°	397.3	397.3	397.3	397.3	397.3

(END OF REPORT)