

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: P562762

Luminaire Tested: **SQ4-PC3-075U-100D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562762
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-935-1D-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: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

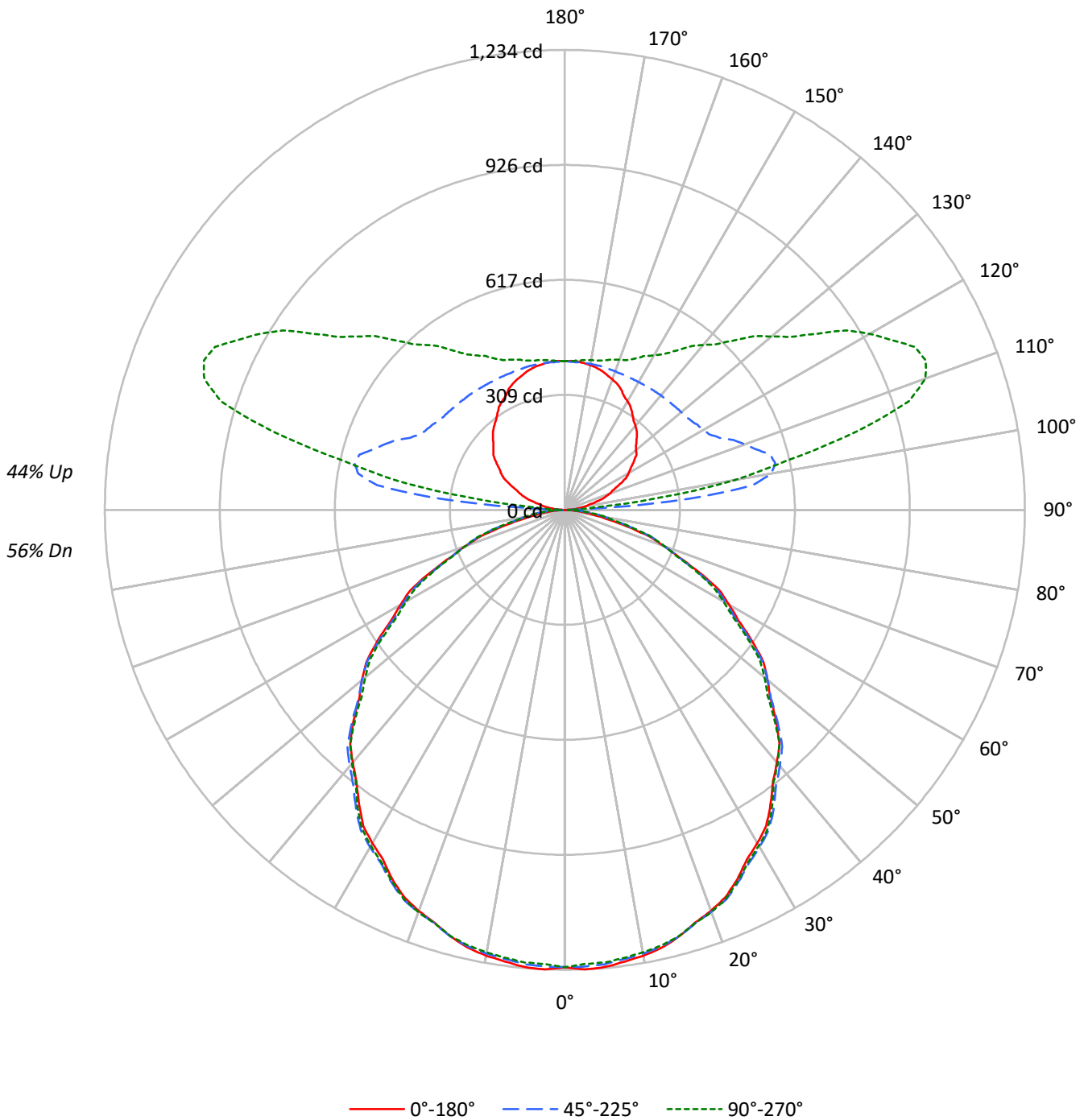
Lumens per Lamp: N/A
Luminaire Lumens: 5951.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	11321	11321	11321
5°	11405	11332	11290
10°	11378	11325	11293
15°	11319	11319	11307
20°	11244	11277	11277
25°	11138	11218	11184
30°	11002	11135	11087
35°	10838	11004	10927
40°	10659	10809	10700
45°	10466	10540	10377
50°	10192	10192	10029
55°	9868	9740	9595
60°	9392	9202	9056
65°	8680	8508	8433
70°	7602	7661	7631
75°	6117	6762	6805
80°	4346	5733	5797
85°	2646	4806	4806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	2.0
10°-20°	333.2	5.6
20°-30°	504.6	8.5
30°-40°	605.0	10.2
40°-50°	616.9	10.4
50°-60°	538.5	9.0
60°-70°	385.5	6.5
70°-80°	198.6	3.3
80°-90°	51.2	0.9
90°-100°	188.3	3.2
100°-110°	518.1	8.7
110°-120°	534.8	9.0
120°-130°	428.5	7.2
130°-140°	336.5	5.7
140°-150°	257.9	4.3
150°-160°	185.4	3.1
160°-170°	113.4	1.9
170°-180°	38.2	0.6
0°-30°	954.0	16.0
0°-40°	1559.0	26.2
0°-60°	2714.4	45.6
0°-90°	3349.7	56.3
90°-120°	1241.3	20.9
90°-150°	2264.2	38.0
90°-180°	2601.0	43.7
0°-180°	5951.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1227	1227	1227	1227	1227	
5°	1232	1219	1224	1220	1219	117
15°	1185	1175	1185	1185	1184	334
25°	1094	1086	1102	1099	1099	504
35°	962	960	977	970	970	602
45°	802	800	808	798	795	617
55°	614	606	606	596	596	547
65°	398	389	390	386	386	393
75°	172	179	190	191	191	185
85°	25	38	45	47	45	34
90°	1	3	6	8	8	3
95°	28	103	333	142	91	30
105°	93	142	571	870	811	98
115°	164	200	458	912	1035	162
125°	226	258	415	703	823	202
135°	273	303	404	568	643	210
145°	315	337	398	484	522	198
155°	357	368	395	435	448	164
165°	386	391	397	413	415	109
175°	399	400	398	403	402	38
180°	399	399	399	399	399	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.0	1227.0	1227.0	1227.0	1227.0
2.5°	1234.3	1223.6	1227.0	1224.2	1219.7
5°	1231.5	1219.3	1223.6	1220.1	1219.0
7.5°	1222.7	1210.5	1216.1	1213.8	1212.7
10°	1214.5	1202.3	1208.8	1206.5	1205.4
12.5°	1203.6	1192.3	1199.7	1197.4	1197.2
15°	1185.0	1175.0	1185.0	1184.9	1183.8
17.5°	1161.5	1152.4	1163.1	1163.8	1163.1
20°	1145.2	1135.2	1148.6	1147.5	1148.6
22.5°	1125.2	1117.0	1131.3	1128.4	1129.5
25°	1094.1	1086.3	1102.0	1098.6	1098.6
27.5°	1057.3	1051.7	1068.8	1065.2	1065.2
30°	1032.7	1027.2	1045.2	1040.7	1040.7
32.5°	1005.4	1001.7	1018.9	1013.4	1013.4
35°	962.3	960.1	977.0	970.2	970.2
37.5°	917.7	915.7	931.1	922.9	920.2
40°	885.0	883.9	897.5	888.4	888.4
42.5°	852.3	851.2	863.0	852.1	852.1
45°	802.1	799.9	807.8	797.5	795.3
47.5°	747.3	745.1	750.1	738.9	737.8
50°	710.1	707.8	710.1	699.8	698.7
52.5°	671.9	667.9	668.3	658.0	657.8
55°	613.5	605.7	605.5	596.5	596.5
57.5°	551.7	541.5	542.4	534.6	533.5
60°	509.0	497.9	498.7	491.9	490.8
62.5°	467.2	454.3	456.9	449.2	449.0
65°	397.6	388.7	389.7	386.3	386.3
67.5°	330.8	322.6	328.6	325.8	325.6
70°	281.8	276.2	284.0	284.0	282.9
72.5°	236.3	236.1	245.9	245.9	246.5
75°	171.6	179.3	189.7	190.9	190.9
77.5°	114.5	128.3	139.7	140.2	140.0
80°	81.8	97.4	107.9	110.2	109.1
82.5°	55.4	71.9	80.7	82.9	81.8
85°	25.0	38.3	45.4	46.6	45.4
87.5°	7.4	15.9	19.4	19.7	17.9
90°	0.8	3.3	5.9	7.6	7.6
92.5°	11.7	50.1	86.8	33.3	27.4
95°	28.0	102.8	333.0	142.4	90.9
97.5°	45.7	114.0	508.2	391.6	276.3
100°	58.6	120.9	563.3	568.5	463.9
102.5°	70.9	129.2	577.5	705.3	609.3
105°	92.6	142.4	570.9	869.5	811.3
107.5°	113.3	158.9	538.5	949.9	967.2
110°	128.3	169.8	514.0	969.9	1029.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	182.1	489.5	957.0	1048.0
115°	164.0	199.7	457.9	911.8	1034.8
117.5°	185.0	217.9	437.9	848.5	987.5
120°	198.0	229.5	429.0	801.0	944.7
122.5°	209.5	241.1	422.9	759.4	895.8
125°	226.0	257.6	415.4	702.8	823.2
127.5°	241.6	271.7	410.5	655.6	761.2
130°	249.8	280.5	407.8	627.5	723.8
132.5°	259.3	290.0	405.8	602.8	689.9
135°	272.7	302.6	403.5	568.4	643.1
137.5°	285.3	313.0	401.7	540.5	602.2
140°	294.8	320.6	401.0	522.1	577.7
142.5°	303.0	326.7	399.6	505.6	553.2
145°	315.2	336.8	397.6	484.3	521.6
147.5°	328.3	346.9	396.6	465.4	495.3
150°	336.4	353.0	395.9	455.1	478.3
152.5°	343.9	359.2	395.2	446.1	465.4
155°	356.8	368.5	395.1	435.3	447.7
157.5°	366.2	375.6	395.1	426.3	435.0
160°	373.0	380.4	395.1	421.5	428.2
162.5°	378.4	384.5	395.7	417.4	422.7
165°	385.7	390.7	396.8	412.9	415.4
167.5°	390.8	394.6	397.6	409.2	409.8
170°	394.2	396.7	397.6	407.8	407.8
172.5°	396.9	398.1	397.6	405.7	405.1
175°	399.3	400.1	397.6	402.7	401.8
177.5°	400.0	400.0	397.3	401.3	400.0
180°	399.3	399.3	399.3	399.3	399.3

(END OF REPORT)