

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: P562547

Luminaire Tested: **SQ4-PC3-025U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562547
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

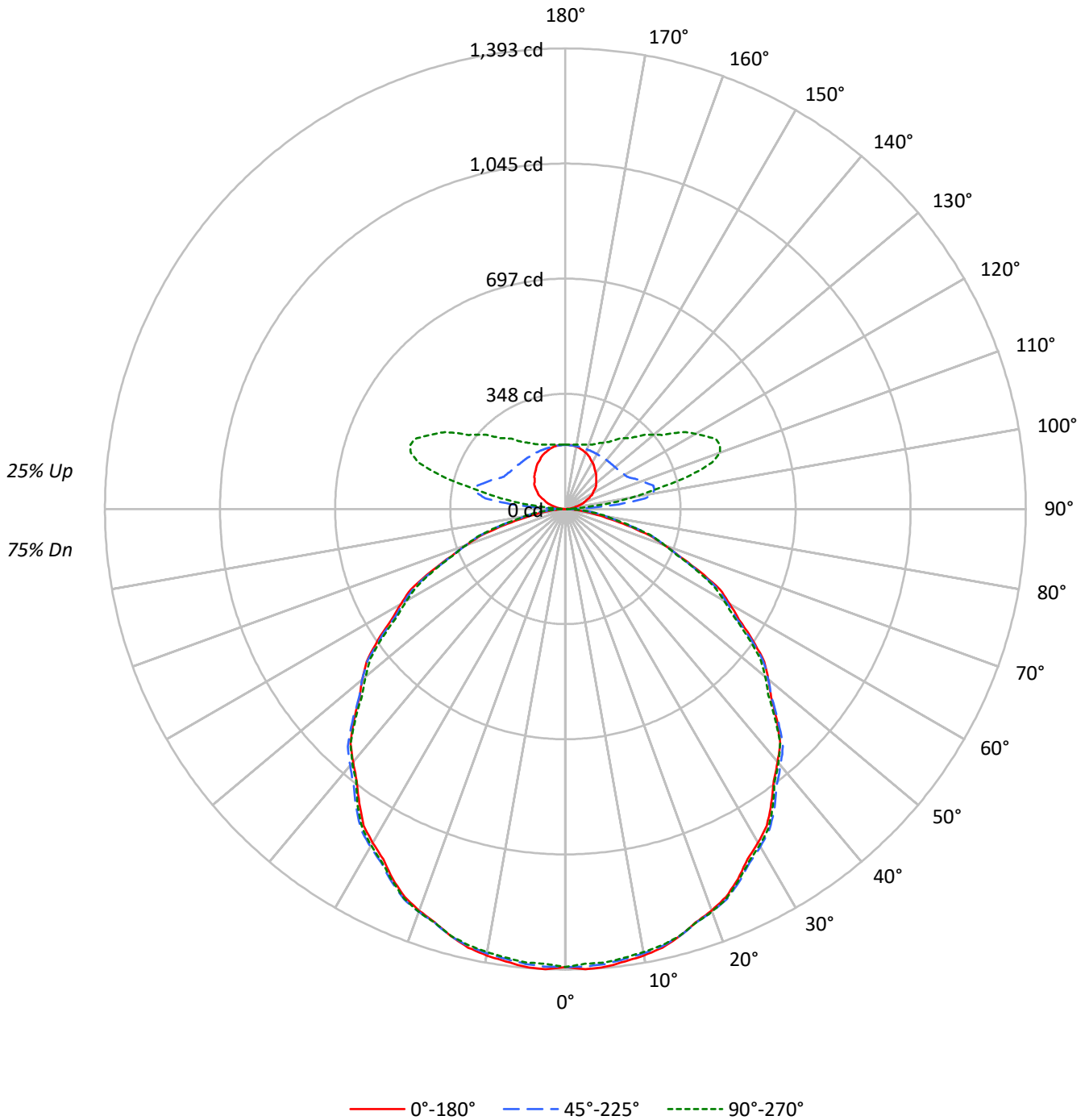
Lumens per Lamp: N/A
Luminaire Lumens: 5040.4 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.6
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	88	86	83	80	78	75	73	70	69	67	63
2	94	87	80	75	89	83	77	72	75	70	67	68	65	61	62	59	57	53
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41	38
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36	33
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	31	26	23	21
10	50	38	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8520	8520	8520
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8510
20°	8462	8488	8488
25°	8382	8443	8417
30°	8281	8381	8344
35°	8157	8282	8224
40°	8022	8135	8053
45°	7877	7932	7810
50°	7670	7670	7548
55°	7427	7331	7220
60°	7069	6926	6816
65°	6533	6402	6347
70°	5721	5766	5744
75°	4603	5090	5121
80°	3269	4314	4360
85°	1990	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	2.6
10°-20°	376.2	7.5
20°-30°	569.7	11.3
30°-40°	683.0	13.6
40°-50°	696.4	13.8
50°-60°	607.9	12.1
60°-70°	435.2	8.6
70°-80°	224.2	4.4
80°-90°	57.7	1.1
90°-100°	94.7	1.9
100°-110°	248.9	4.9
110°-120°	258.1	5.1
120°-130°	207.0	4.1
130°-140°	162.4	3.2
140°-150°	124.6	2.5
150°-160°	89.8	1.8
160°-170°	54.9	1.1
170°-180°	18.6	0.4
0°-30°	1077.0	21.4
0°-40°	1760.0	34.9
0°-60°	3064.3	60.8
0°-90°	3781.4	75.0
90°-120°	601.6	11.9
90°-150°	1095.7	21.7
90°-180°	1259.0	25.0
0°-180°	5040.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1385	1385	1385	1385	1385	
5°	1390	1376	1381	1377	1376	132
15°	1338	1326	1338	1338	1336	377
25°	1235	1226	1244	1240	1240	568
35°	1086	1084	1103	1095	1095	679
45°	906	903	912	900	898	697
55°	693	684	684	673	673	617
65°	449	439	440	436	436	444
75°	194	202	214	216	216	209
85°	28	43	51	53	51	38
90°	1	4	10	5	5	2
95°	12	49	163	84	57	14
105°	45	68	275	418	390	48
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1385.2	1385.2	1385.2	1385.2	1385.2
2.5°	1393.4	1381.3	1385.2	1382.0	1377.0
5°	1390.3	1376.5	1381.3	1377.4	1376.2
7.5°	1380.3	1366.5	1372.9	1370.3	1369.0
10°	1371.1	1357.3	1364.7	1362.1	1360.8
12.5°	1358.8	1346.0	1354.4	1351.8	1351.6
15°	1337.7	1326.4	1337.7	1337.7	1336.4
17.5°	1311.3	1301.0	1313.1	1313.8	1313.1
20°	1292.8	1281.5	1296.7	1295.4	1296.7
22.5°	1270.3	1261.0	1277.2	1273.9	1275.1
25°	1235.1	1226.3	1244.1	1240.2	1240.2
27.5°	1193.6	1187.3	1206.6	1202.5	1202.5
30°	1165.9	1159.6	1180.0	1174.8	1174.8
32.5°	1135.1	1130.8	1150.2	1144.0	1144.0
35°	1086.3	1083.8	1103.0	1095.3	1095.3
37.5°	1036.1	1033.8	1051.2	1041.9	1038.9
40°	999.1	997.9	1013.2	1003.0	1003.0
42.5°	962.2	960.9	974.2	961.9	961.9
45°	905.5	903.0	911.9	900.3	897.8
47.5°	843.7	841.2	846.8	834.2	832.9
50°	801.6	799.1	801.6	790.0	788.8
52.5°	758.5	754.0	754.4	742.9	742.6
55°	692.6	683.8	683.6	673.3	673.3
57.5°	622.8	611.3	612.3	603.5	602.3
60°	574.6	562.0	563.0	555.3	554.1
62.5°	527.4	512.8	515.8	507.1	506.9
65°	448.9	438.9	439.9	436.1	436.1
67.5°	373.5	364.2	370.9	367.8	367.6
70°	318.1	311.8	320.6	320.6	319.4
72.5°	266.8	266.5	277.5	277.6	278.3
75°	193.7	202.4	214.2	215.5	215.5
77.5°	129.3	144.8	157.8	158.3	158.0
80°	92.3	109.9	121.8	124.4	123.1
82.5°	62.6	81.1	91.1	93.6	92.3
85°	28.2	43.3	51.3	52.6	51.3
87.5°	8.5	18.0	22.5	21.5	19.5
90°	1.2	3.7	10.0	5.0	5.0
92.5°	5.2	25.2	55.8	24.7	15.9
95°	12.5	49.0	163.1	84.1	57.3
97.5°	21.7	53.8	244.0	194.1	142.9
100°	28.6	57.9	268.9	272.5	211.7
102.5°	34.6	61.9	275.9	339.5	287.4
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.3	76.7	259.5	458.3	465.2
110°	62.3	81.7	246.5	468.8	498.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.8
117.5°	89.9	105.5	210.7	408.5	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.5	203.7	366.6	432.5
125°	110.8	124.2	200.5	338.8	399.7
127.5°	118.0	131.7	197.7	316.4	367.8
130°	122.0	136.6	196.7	302.4	349.9
132.5°	126.0	140.6	195.7	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	194.0	260.9	290.8
140°	143.2	155.4	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.1	168.6	191.7	224.5	239.6
150°	163.1	171.6	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	177.9	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.5	184.2	191.7	204.2	206.7
162.5°	183.5	186.2	191.7	202.3	204.7
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	199.0
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.2	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)