

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: P562703

Luminaire Tested: **SQ4-PC3-075U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562703
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-050D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

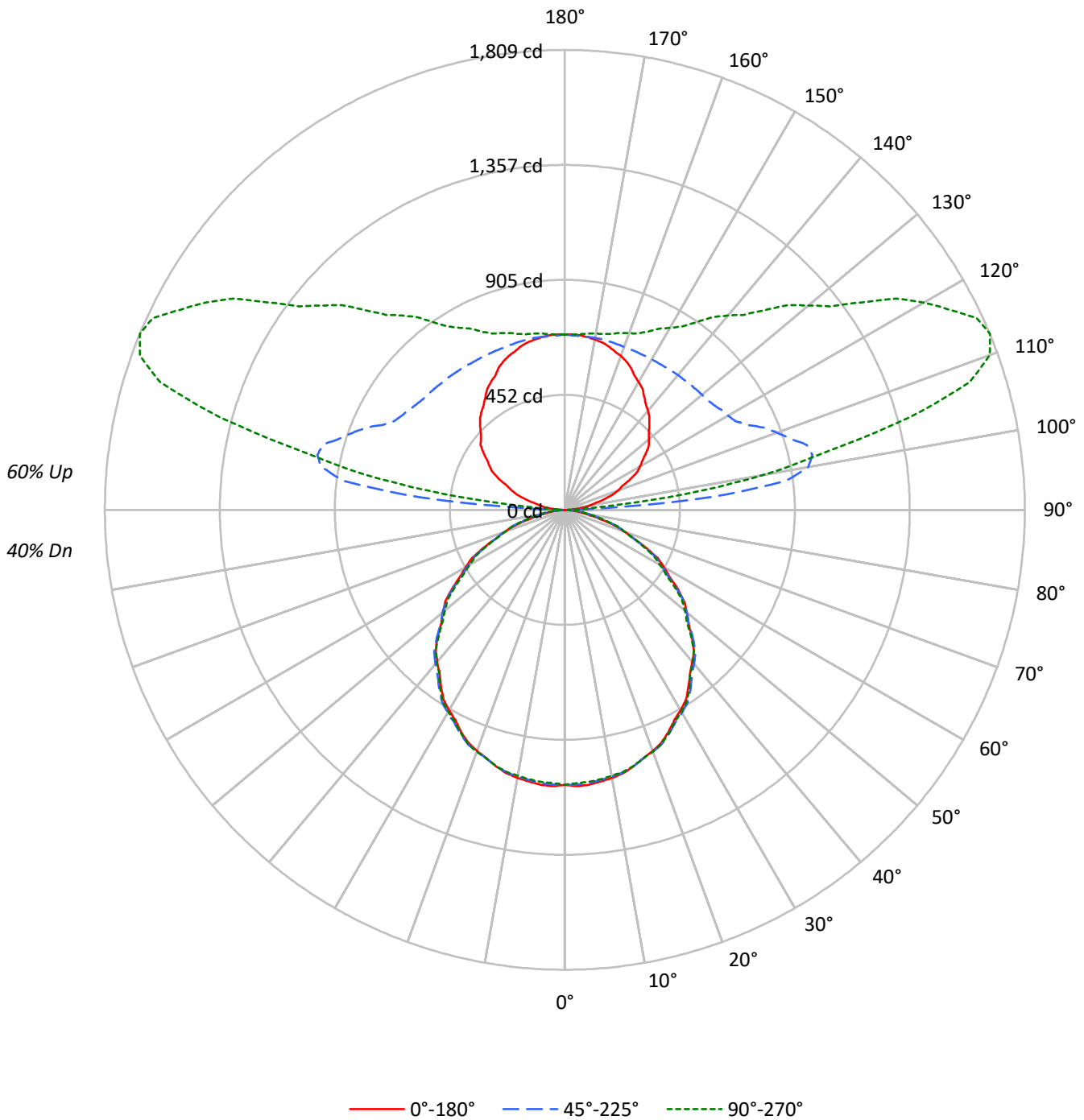
Lumens per Lamp: N/A
Luminaire Lumens: 7444.4 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 54.3
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	15
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	14
8	52	40	33	27	47	37	30	25	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6653	6653	6653
5°	6703	6660	6635
10°	6687	6655	6637
15°	6652	6652	6645
20°	6608	6627	6627
25°	6545	6593	6572
30°	6466	6544	6516
35°	6370	6467	6422
40°	6264	6353	6289
45°	6151	6194	6098
50°	5989	5989	5894
55°	5799	5724	5638
60°	5520	5409	5322
65°	5101	4999	4956
70°	4467	4503	4485
75°	3593	3976	4000
80°	2554	3369	3404
85°	1553	2830	2830



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	1.4
10°-20°	293.8	3.9
20°-30°	444.9	6.0
30°-40°	533.3	7.2
40°-50°	543.8	7.3
50°-60°	474.7	6.4
60°-70°	339.8	4.6
70°-80°	175.0	2.4
80°-90°	46.0	0.6
90°-100°	325.1	4.4
100°-110°	894.5	12.0
110°-120°	923.3	12.4
120°-130°	739.7	9.9
130°-140°	581.0	7.8
140°-150°	445.2	6.0
150°-160°	320.1	4.3
160°-170°	195.7	2.6
170°-180°	66.0	0.9
0°-30°	841.0	11.3
0°-40°	1374.3	18.5
0°-60°	2392.8	32.1
0°-90°	2953.7	39.7
90°-120°	2142.9	28.8
90°-150°	3908.8	52.5
90°-180°	4491.0	60.3
0°-180°	7444.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1086	1075	1079	1076	1075	103
15°	1045	1036	1045	1044	1044	295
25°	964	958	972	968	968	444
35°	848	846	861	855	855	531
45°	707	705	712	703	701	544
55°	541	534	534	526	526	482
65°	350	343	344	340	340	347
75°	151	158	167	168	168	163
85°	22	34	40	41	40	30
90°	2	6	10	13	13	4
95°	48	178	575	246	157	51
105°	160	246	986	1501	1401	169
115°	283	345	790	1574	1786	279
125°	390	445	717	1213	1421	348
135°	471	522	697	981	1110	363
145°	544	581	686	836	900	341
155°	616	636	682	751	773	283
165°	666	674	685	713	717	188
175°	689	691	686	695	694	65
180°	689	689	689	689	689	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1081.6	1081.6	1081.6	1081.6	1081.6
2.5°	1088.0	1078.6	1081.6	1079.1	1075.2
5°	1085.6	1074.9	1078.6	1075.6	1074.6
7.5°	1077.8	1067.0	1072.0	1070.0	1069.0
10°	1070.6	1059.8	1065.6	1063.6	1062.6
12.5°	1061.0	1051.0	1057.6	1055.6	1055.4
15°	1044.6	1035.8	1044.6	1044.5	1043.6
17.5°	1023.9	1015.9	1025.3	1025.9	1025.3
20°	1009.5	1000.7	1012.5	1011.5	1012.5
22.5°	991.9	984.6	997.3	994.7	995.7
25°	964.4	957.6	971.5	968.4	968.4
27.5°	932.0	927.1	942.2	939.0	939.0
30°	910.4	905.5	921.4	917.4	917.4
32.5°	886.3	883.0	898.1	893.3	893.3
35°	848.3	846.3	861.3	855.3	855.3
37.5°	809.0	807.2	820.8	813.6	811.2
40°	780.2	779.2	791.2	783.2	783.2
42.5°	751.3	750.3	760.7	751.1	751.1
45°	707.1	705.1	712.1	703.0	701.0
47.5°	658.8	656.8	661.2	651.4	650.4
50°	625.9	624.0	625.9	616.9	615.9
52.5°	592.3	588.8	589.1	580.1	579.9
55°	540.8	534.0	533.8	525.8	525.8
57.5°	486.3	477.3	478.1	471.3	470.3
60°	448.7	438.9	439.7	433.6	432.6
62.5°	411.8	400.5	402.8	396.0	395.8
65°	350.5	342.7	343.5	340.5	340.5
67.5°	291.6	284.4	289.6	287.2	287.0
70°	248.4	243.5	250.4	250.4	249.4
72.5°	208.3	208.1	216.7	216.7	217.3
75°	151.2	158.1	167.3	168.3	168.3
77.5°	101.0	113.1	123.2	123.6	123.4
80°	72.1	85.8	95.1	97.1	96.1
82.5°	48.9	63.4	71.1	73.1	72.1
85°	22.0	33.8	40.1	41.0	40.1
87.5°	6.7	14.6	18.1	18.6	17.1
90°	1.5	5.8	10.3	13.2	13.2
92.5°	20.2	86.5	149.9	57.6	47.2
95°	48.4	177.5	574.9	245.8	156.9
97.5°	78.9	196.8	877.3	676.0	477.0
100°	101.2	208.8	972.4	981.5	800.8
102.5°	122.3	223.0	997.0	1217.7	1051.9
105°	159.9	245.9	985.6	1501.0	1400.6
107.5°	195.7	274.2	929.6	1639.8	1669.6
110°	221.5	293.2	887.3	1674.3	1777.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	244.9	314.3	845.1	1652.1	1809.3
115°	283.1	344.7	790.5	1574.1	1786.4
117.5°	319.4	376.2	755.9	1464.8	1704.8
120°	341.7	396.2	740.7	1382.8	1630.9
122.5°	361.7	416.2	730.1	1311.0	1546.4
125°	390.1	444.6	717.2	1213.2	1421.2
127.5°	417.1	469.0	708.7	1131.7	1314.1
130°	431.2	484.3	704.0	1083.2	1249.6
132.5°	447.6	500.7	700.5	1040.6	1190.9
135°	470.8	522.4	696.7	981.2	1110.3
137.5°	492.5	540.4	693.4	933.2	1039.6
140°	508.9	553.4	692.3	901.2	997.3
142.5°	523.0	564.0	689.9	872.8	955.1
145°	544.1	581.4	686.4	836.0	900.5
147.5°	566.7	598.8	684.6	803.4	855.1
150°	580.8	609.5	683.5	785.6	825.7
152.5°	593.7	620.1	682.3	770.2	803.4
155°	616.0	636.1	682.0	751.4	772.9
157.5°	632.1	648.5	682.0	736.0	750.9
160°	643.9	656.8	682.0	727.7	739.2
162.5°	653.2	663.9	683.2	720.6	729.8
165°	665.9	674.5	684.9	712.9	717.2
167.5°	674.7	681.3	686.4	706.4	707.5
170°	680.5	684.8	686.4	704.0	704.0
172.5°	685.2	687.2	686.4	700.4	699.3
175°	689.3	690.8	686.4	695.2	693.7
177.5°	690.5	690.5	685.8	692.8	690.5
180°	689.3	689.3	689.3	689.3	689.3

(END OF REPORT)