

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: P562665

Luminaire Tested: **SQ4-PC3-050U-100D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562665
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PC3-050U-100D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

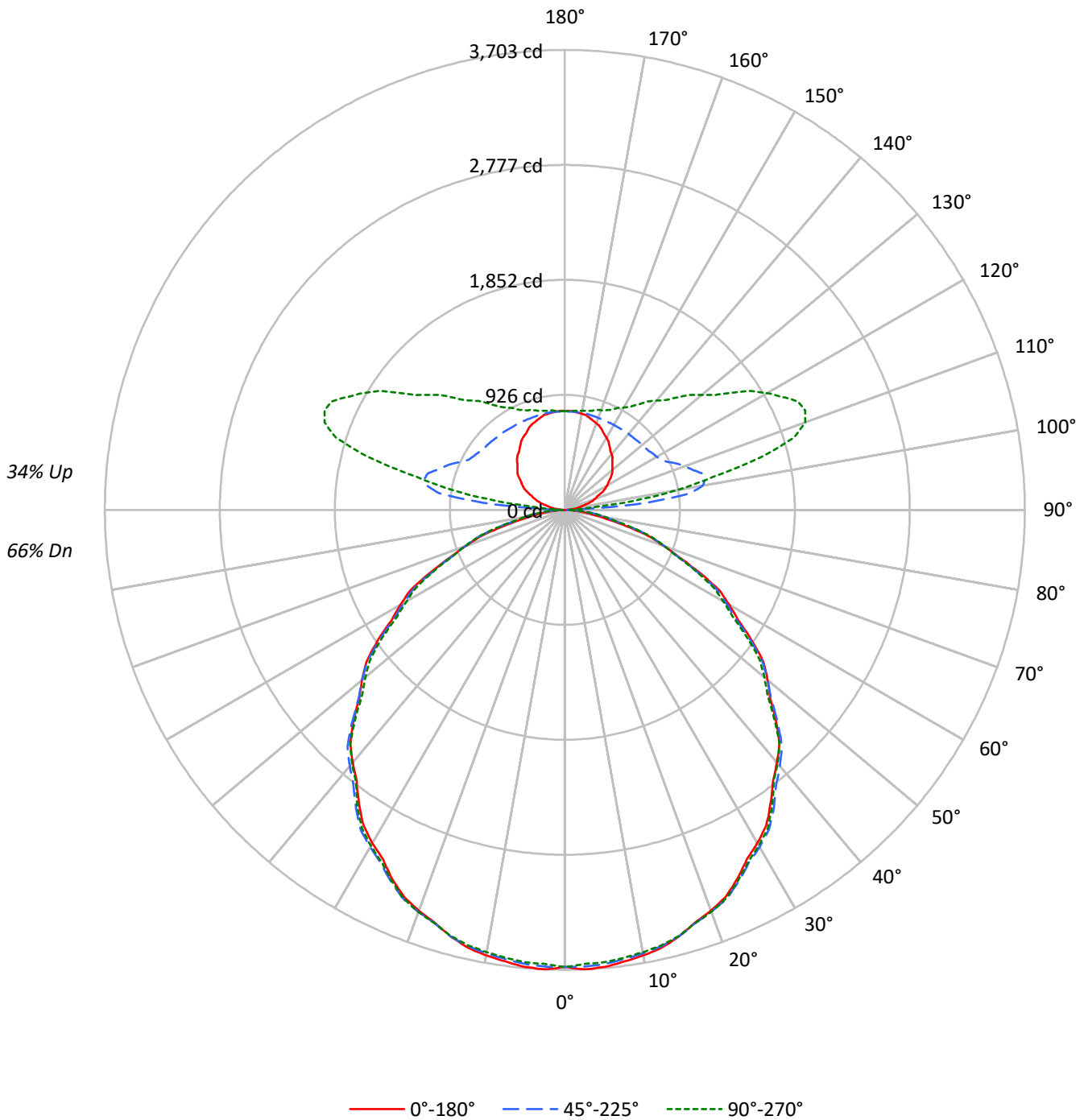
Lumens per Lamp: N/A
Luminaire Lumens: 15241.4 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 134.4
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	101	97	93	90	95	91	88	85	81	78	76	72	70	68	63	61	60	56
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	55	53	51	47
3	84	75	67	61	79	70	64	58	63	57	53	56	51	48	49	46	43	39
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	44	40	37	34
5	71	59	50	44	66	56	48	42	50	44	39	44	39	36	39	35	32	29
6	65	53	44	38	61	50	43	37	45	39	34	40	35	31	36	32	28	26
7	60	48	40	34	57	45	38	33	41	35	30	37	31	28	32	28	25	23
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20	18
10	49	36	29	24	46	35	28	23	32	26	22	28	23	20	26	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11321	11321	11321
5°	11406	11332	11290
10°	11378	11325	11293
15°	11318	11318	11307
20°	11244	11277	11277
25°	11138	11219	11184
30°	11002	11135	11087
35°	10838	11004	10928
40°	10659	10810	10700
45°	10466	10540	10376
50°	10192	10192	10029
55°	9868	9740	9594
60°	9392	9203	9056
65°	8681	8507	8433
70°	7601	7662	7631
75°	6116	6763	6804
80°	4346	5735	5795
85°	2646	4810	4810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.4	2.3
10°-20°	999.7	6.6
20°-30°	1513.9	9.9
30°-40°	1815.0	11.9
40°-50°	1850.7	12.1
50°-60°	1615.5	10.6
60°-70°	1156.6	7.6
70°-80°	595.7	3.9
80°-90°	153.7	1.0
90°-100°	381.7	2.5
100°-110°	1037.0	6.8
110°-120°	1066.3	7.0
120°-130°	852.5	5.6
130°-140°	669.8	4.4
140°-150°	513.6	3.4
150°-160°	369.4	2.4
160°-170°	225.9	1.5
170°-180°	76.1	0.5
0°-30°	2862.0	18.8
0°-40°	4677.0	30.7
0°-60°	8143.2	53.4
0°-90°	10049.1	65.9
90°-120°	2485.0	16.3
90°-150°	4521.0	29.7
90°-180°	5192.0	34.1
0°-180°	15241.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3681	3681	3681	3681	3681	
5°	3695	3658	3671	3660	3657	351
15°	3555	3525	3555	3555	3551	1002
25°	3282	3259	3306	3296	3296	1511
35°	2887	2880	2931	2911	2911	1805
45°	2406	2400	2423	2392	2386	1852
55°	1840	1817	1817	1789	1789	1641
65°	1193	1166	1169	1159	1159	1180
75°	515	538	569	573	573	556
85°	75	115	136	140	136	102
90°	3	10	18	23	23	7
95°	56	209	665	289	194	60
105°	184	287	1140	1736	1634	196
115°	327	397	913	1816	2069	323
125°	450	512	826	1392	1642	401
135°	542	602	803	1134	1278	419
145°	626	672	793	963	1036	393
155°	708	733	788	865	890	327
165°	767	777	790	823	826	217
175°	795	798	793	803	800	76
180°	795	795	795	795	795	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3681.0	3681.0	3681.0	3681.0	3681.0
2.5°	3702.8	3670.8	3681.0	3672.5	3659.2
5°	3694.6	3657.9	3670.7	3660.4	3657.1
7.5°	3668.0	3631.4	3648.2	3641.4	3638.0
10°	3643.5	3606.8	3626.4	3619.5	3616.2
12.5°	3610.8	3576.8	3599.2	3592.3	3591.7
15°	3554.9	3524.9	3554.9	3554.8	3551.4
17.5°	3484.6	3457.3	3489.4	3491.4	3489.4
20°	3435.6	3405.6	3445.8	3442.5	3445.8
22.5°	3375.6	3350.9	3394.0	3385.2	3388.5
25°	3282.2	3258.9	3306.1	3295.8	3295.8
27.5°	3171.8	3155.1	3206.5	3195.6	3195.6
30°	3098.1	3081.5	3135.6	3122.0	3122.0
32.5°	3016.3	3005.0	3056.6	3040.2	3040.2
35°	2886.8	2880.2	2931.1	2910.7	2910.7
37.5°	2753.2	2747.2	2793.4	2768.7	2760.7
40°	2655.1	2651.7	2692.6	2665.3	2665.3
42.5°	2556.9	2553.6	2588.9	2556.2	2556.2
45°	2406.3	2399.6	2423.3	2392.5	2385.8
47.5°	2242.0	2235.3	2250.2	2216.7	2213.3
50°	2130.2	2123.5	2130.2	2099.4	2096.1
52.5°	2015.7	2003.7	2004.8	1974.1	1973.4
55°	1840.5	1817.2	1816.6	1789.4	1789.4
57.5°	1655.1	1624.4	1627.1	1603.9	1600.5
60°	1526.9	1493.6	1496.2	1475.7	1472.4
62.5°	1401.5	1362.8	1370.8	1347.6	1347.0
65°	1192.9	1166.2	1169.0	1158.8	1158.8
67.5°	992.5	967.8	985.7	977.5	976.8
70°	845.3	828.6	852.1	852.0	848.7
72.5°	708.9	708.3	737.6	737.6	739.6
75°	514.7	538.0	569.2	572.6	572.6
77.5°	343.6	384.9	419.2	420.6	419.9
80°	245.4	292.1	323.8	330.5	327.2
82.5°	166.3	215.6	242.0	248.7	245.4
85°	75.0	115.0	136.3	139.7	136.3
87.5°	22.3	47.8	58.1	59.0	53.7
90°	2.6	10.1	17.9	23.0	23.0
92.5°	23.0	104.5	181.5	78.0	66.0
95°	56.3	208.8	664.8	289.3	194.3
97.5°	93.1	230.6	1019.2	792.9	556.9
100°	117.6	245.1	1127.6	1143.1	923.1
102.5°	142.2	259.7	1156.3	1413.7	1219.7
105°	184.1	286.6	1140.4	1736.4	1633.9
107.5°	227.6	318.1	1074.5	1903.1	1931.6
110°	258.3	340.8	1025.4	1935.9	2058.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.9	363.4	976.3	1908.7	2093.2
115°	327.3	397.3	912.9	1816.1	2068.6
117.5°	367.2	434.2	872.5	1684.9	1969.4
120°	393.8	458.8	854.0	1596.9	1879.4
122.5°	416.3	481.3	841.8	1508.7	1781.2
125°	450.0	512.5	825.9	1391.6	1641.6
127.5°	480.2	542.2	817.2	1302.8	1517.3
130°	498.6	558.6	813.1	1247.1	1439.6
132.5°	517.0	577.0	809.0	1199.5	1370.0
135°	542.1	602.1	802.9	1133.5	1278.5
137.5°	569.2	623.7	799.8	1075.2	1197.2
140°	585.6	638.1	797.8	1038.1	1148.1
142.5°	601.9	650.4	795.7	1009.0	1101.0
145°	626.5	671.5	792.7	963.1	1035.6
147.5°	654.1	692.6	790.1	926.9	983.9
150°	672.5	705.0	790.1	906.2	951.2
152.5°	686.8	715.3	788.1	887.6	924.6
155°	708.3	733.3	787.6	864.8	889.8
157.5°	729.3	748.8	787.6	849.4	868.4
160°	741.5	759.0	787.6	839.0	854.0
162.5°	753.8	767.3	789.6	830.8	841.8
165°	767.1	777.1	790.1	823.4	825.9
167.5°	780.9	785.9	792.7	814.7	816.7
170°	785.0	790.0	792.7	810.6	810.6
172.5°	789.1	792.1	792.7	806.5	806.5
175°	795.2	797.7	792.7	802.8	800.3
177.5°	797.3	797.3	791.1	799.2	795.2
180°	795.2	795.2	795.2	795.2	795.2

(END OF REPORT)