

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: P562716

Luminaire Tested: **SQ4-PC3-075U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562716
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-935-1D-UNV-STD-W-8
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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

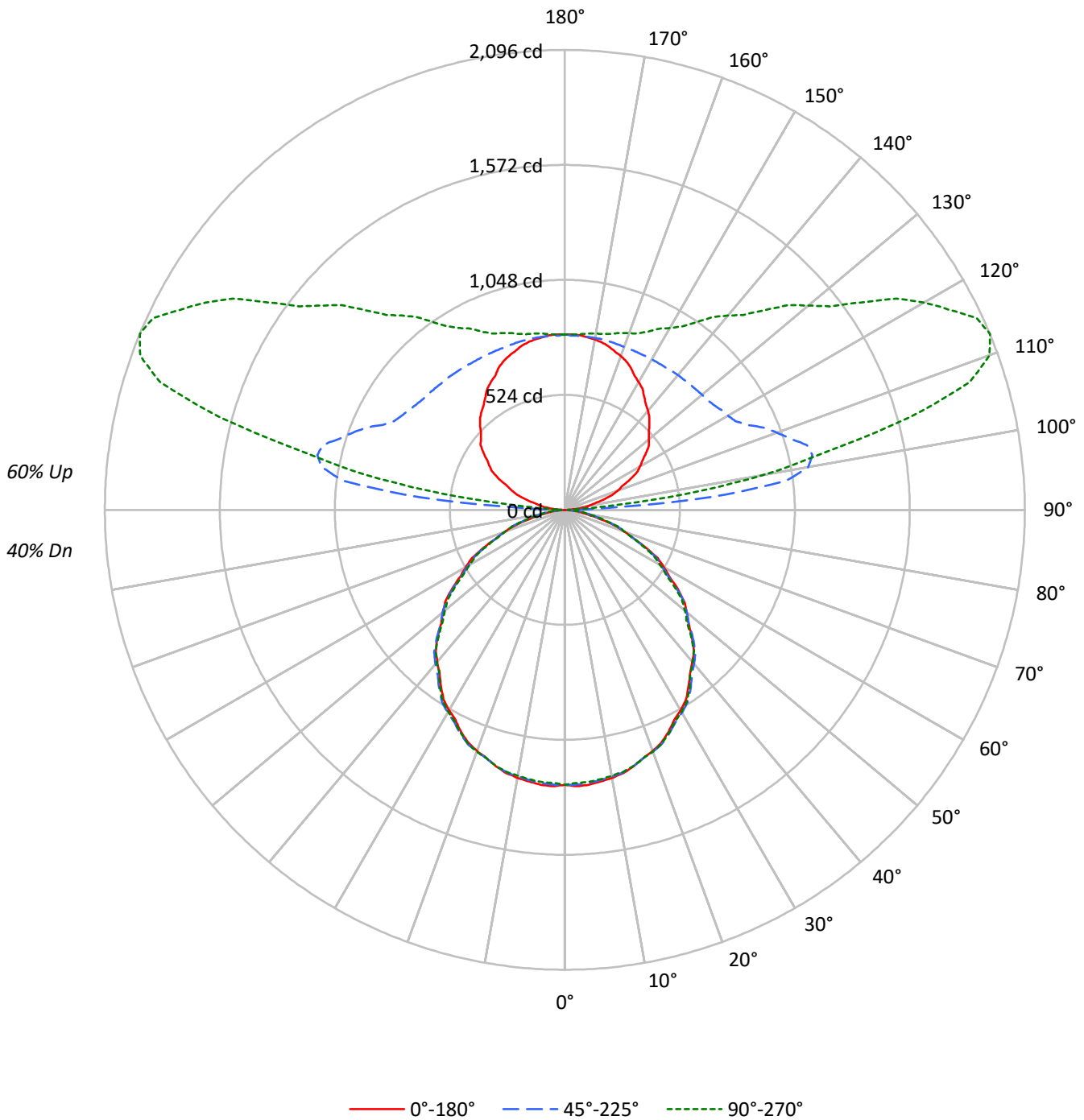
Lumens per Lamp: N/A
Luminaire Lumens: 8624.5 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 71.8
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	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°	5781	5781	5781
5°	5824	5787	5765
10°	5810	5783	5766
15°	5780	5780	5774
20°	5741	5758	5758
25°	5687	5729	5711
30°	5618	5686	5661
35°	5534	5619	5580
40°	5443	5520	5464
45°	5344	5382	5299
50°	5205	5205	5121
55°	5039	4974	4899
60°	4796	4700	4624
65°	4433	4344	4306
70°	3880	3913	3897
75°	3123	3454	3474
80°	2218	2928	2959
85°	1350	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	1.4
10°-20°	340.3	3.9
20°-30°	515.4	6.0
30°-40°	617.9	7.2
40°-50°	630.0	7.3
50°-60°	550.0	6.4
60°-70°	393.7	4.6
70°-80°	202.8	2.4
80°-90°	53.3	0.6
90°-100°	376.7	4.4
100°-110°	1036.3	12.0
110°-120°	1069.6	12.4
120°-130°	857.0	9.9
130°-140°	673.1	7.8
140°-150°	515.8	6.0
150°-160°	370.9	4.3
160°-170°	226.8	2.6
170°-180°	76.4	0.9
0°-30°	974.3	11.3
0°-40°	1592.1	18.5
0°-60°	2772.1	32.1
0°-90°	3421.9	39.7
90°-120°	2482.6	28.8
90°-150°	4528.5	52.5
90°-180°	5203.0	60.3
0°-180°	8624.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1258	1245	1250	1246	1245	119
15°	1210	1200	1210	1210	1209	341
25°	1117	1109	1126	1122	1122	514
35°	983	980	998	991	991	615
45°	819	817	825	814	812	631
55°	626	619	618	609	609	559
65°	406	397	398	394	394	402
75°	175	183	194	195	195	189
85°	26	39	46	48	46	35
90°	2	7	12	15	15	5
95°	56	206	666	285	182	59
105°	185	285	1142	1739	1623	195
115°	328	399	916	1824	2070	324
125°	452	515	831	1406	1646	403
135°	545	605	807	1137	1286	421
145°	630	674	795	968	1043	395
155°	714	737	790	870	896	328
165°	771	781	794	826	831	217
175°	799	800	795	805	804	76
180°	799	799	799	799	799	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1253.1	1253.1	1253.1	1253.1	1253.1
2.5°	1260.5	1249.6	1253.1	1250.2	1245.7
5°	1257.7	1245.2	1249.6	1246.1	1245.0
7.5°	1248.7	1236.2	1241.9	1239.6	1238.5
10°	1240.3	1227.8	1234.5	1232.2	1231.0
12.5°	1229.2	1217.6	1225.2	1222.9	1222.7
15°	1210.2	1199.9	1210.2	1210.1	1209.0
17.5°	1186.2	1176.9	1187.9	1188.6	1187.9
20°	1169.5	1159.3	1173.0	1171.9	1173.0
22.5°	1149.1	1140.7	1155.4	1152.4	1153.5
25°	1117.3	1109.4	1125.5	1122.0	1122.0
27.5°	1079.7	1074.1	1091.6	1087.9	1087.9
30°	1054.7	1049.0	1067.4	1062.8	1062.8
32.5°	1026.8	1023.0	1040.5	1035.0	1035.0
35°	982.7	980.5	997.8	990.9	990.9
37.5°	937.3	935.2	950.9	942.5	939.8
40°	903.8	902.7	916.6	907.3	907.3
42.5°	870.4	869.3	881.3	870.2	870.2
45°	819.1	816.9	824.9	814.5	812.2
47.5°	763.2	761.0	766.0	754.6	753.5
50°	725.2	722.9	725.2	714.7	713.6
52.5°	686.2	682.1	682.5	672.0	671.8
55°	626.5	618.6	618.4	609.1	609.1
57.5°	563.4	553.0	553.9	546.0	544.9
60°	519.8	508.5	509.4	502.4	501.2
62.5°	477.1	463.9	466.7	458.8	458.5
65°	406.1	397.0	398.0	394.5	394.5
67.5°	337.9	329.5	335.5	332.8	332.5
70°	287.7	282.1	290.1	290.0	288.9
72.5°	241.3	241.1	251.1	251.1	251.8
75°	175.2	183.1	193.8	194.9	194.9
77.5°	117.0	131.0	142.7	143.2	142.9
80°	83.5	99.4	110.2	112.5	111.4
82.5°	56.6	73.4	82.4	84.7	83.5
85°	25.5	39.1	46.4	47.5	46.4
87.5°	7.8	16.9	20.9	21.6	19.8
90°	1.7	6.7	11.9	15.3	15.3
92.5°	23.4	100.2	173.7	66.7	54.7
95°	56.1	205.6	666.1	284.8	181.8
97.5°	91.4	228.0	1016.4	783.2	552.6
100°	117.2	241.8	1126.5	1137.1	927.7
102.5°	141.7	258.3	1155.1	1410.7	1218.6
105°	185.2	284.9	1141.8	1739.0	1622.7
107.5°	226.7	317.7	1076.9	1899.8	1934.3
110°	256.6	339.6	1028.0	1939.7	2059.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.8	364.2	979.0	1914.0	2096.1
115°	327.9	399.4	915.8	1823.7	2069.6
117.5°	370.1	435.9	875.7	1697.0	1975.1
120°	395.9	459.0	858.1	1602.0	1889.5
122.5°	419.0	482.1	845.8	1518.8	1791.6
125°	452.0	515.1	830.9	1405.6	1646.5
127.5°	483.2	543.4	821.0	1311.1	1522.4
130°	499.5	561.0	815.6	1255.0	1447.7
132.5°	518.6	580.1	811.5	1205.6	1379.7
135°	545.4	605.2	807.1	1136.7	1286.3
137.5°	570.6	626.1	803.4	1081.1	1204.4
140°	589.6	641.1	802.0	1044.1	1155.4
142.5°	605.9	653.4	799.3	1011.1	1106.5
145°	630.4	673.6	795.2	968.5	1043.3
147.5°	656.6	693.8	793.2	930.8	990.6
150°	672.9	706.1	791.8	910.1	956.6
152.5°	687.8	718.4	790.4	892.2	930.8
155°	713.6	736.9	790.1	870.5	895.5
157.5°	732.3	751.3	790.1	852.7	870.0
160°	745.9	760.9	790.1	843.1	856.4
162.5°	756.8	769.1	791.5	834.9	845.5
165°	771.4	781.4	793.5	825.9	830.9
167.5°	781.6	789.2	795.2	818.3	819.7
170°	788.4	793.4	795.2	815.6	815.6
172.5°	793.8	796.2	795.2	811.5	810.2
175°	798.6	800.3	795.2	805.4	803.7
177.5°	800.0	800.0	794.5	802.6	800.0
180°	798.6	798.6	798.6	798.6	798.6

(END OF REPORT)