

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: P563130

Luminaire Tested: **SQ4-PC3-150U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563130
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

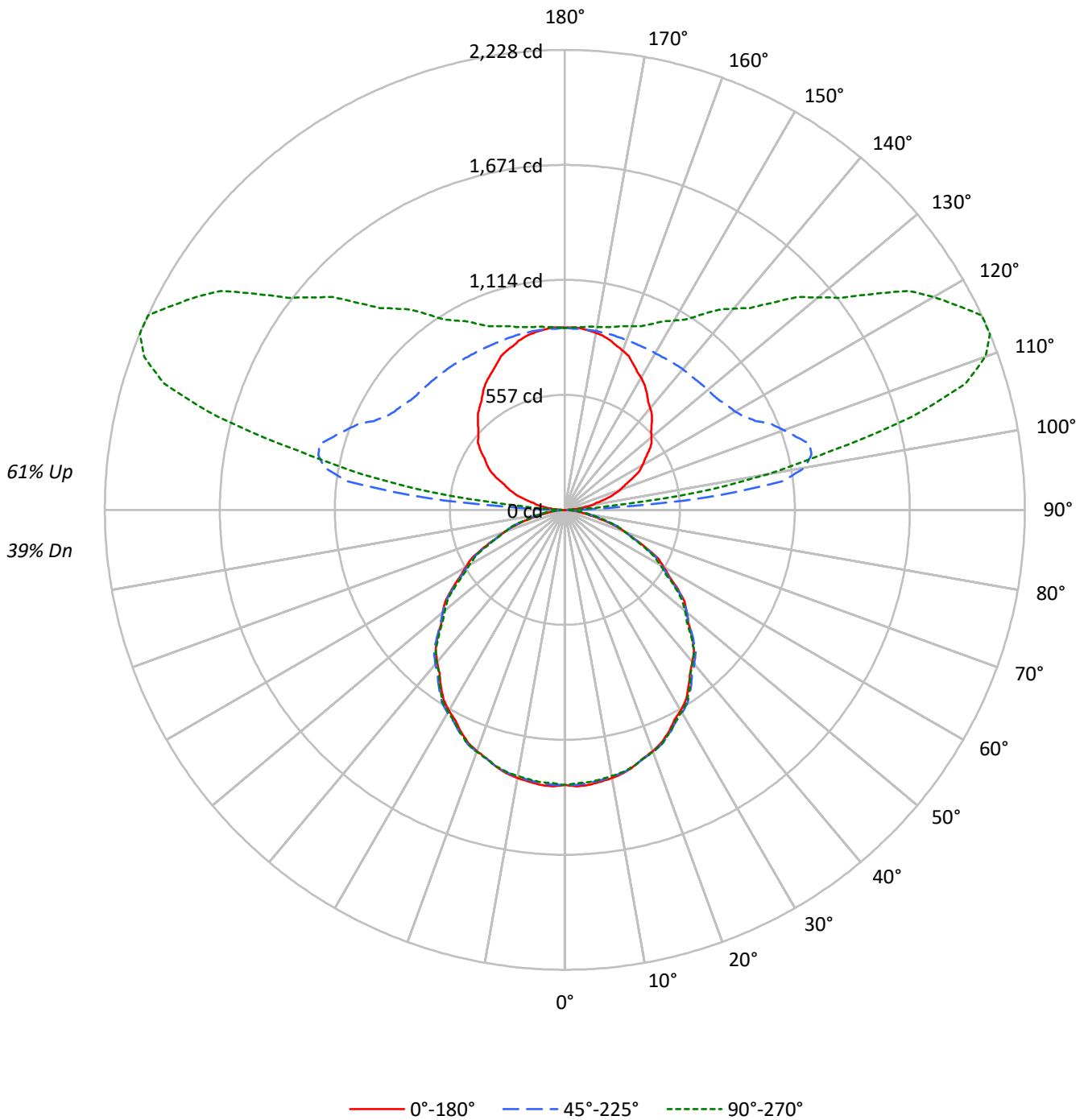
Lumens per Lamp: N/A
Luminaire Lumens: 9325.5 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.3
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	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	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	24	20	26	21	17	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12298	12298	12298
5°	12390	12310	12265
10°	12360	12303	12267
15°	12295	12295	12283
20°	12214	12250	12250
25°	12099	12186	12149
30°	11952	12096	12044
35°	11773	11955	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11072	11072	10894
55°	10719	10581	10422
60°	10202	9998	9839
65°	9431	9241	9160
70°	8257	8322	8290
75°	6645	7347	7390
80°	4723	6227	6296
85°	2879	5229	5229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	1.4
10°-20°	362.0	3.9
20°-30°	548.2	5.9
30°-40°	657.2	7.0
40°-50°	670.1	7.2
50°-60°	585.0	6.3
60°-70°	418.8	4.5
70°-80°	215.7	2.3
80°-90°	56.4	0.6
90°-100°	409.8	4.4
100°-110°	1108.2	11.9
110°-120°	1165.1	12.5
120°-130°	946.4	10.1
130°-140°	742.3	8.0
140°-150°	569.7	6.1
150°-160°	409.7	4.4
160°-170°	250.3	2.7
170°-180°	84.4	0.9
0°-30°	1036.3	11.1
0°-40°	1693.6	18.2
0°-60°	2948.7	31.6
0°-90°	3639.6	39.0
90°-120°	2683.1	28.8
90°-150°	4941.5	53.0
90°-180°	5686.0	61.0
0°-180°	9325.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1333	1333	1333	1333	1333	
5°	1338	1325	1329	1326	1324	127
15°	1287	1276	1287	1287	1286	363
25°	1188	1180	1197	1193	1193	547
35°	1045	1043	1061	1054	1054	654
45°	871	869	878	866	864	671
55°	666	658	658	648	648	594
65°	432	422	423	420	420	427
75°	186	195	206	207	207	201
85°	27	42	49	51	49	37
90°	2	6	12	13	12	5
95°	64	223	682	353	210	67
105°	206	318	1229	1813	1739	217
115°	363	443	1020	1974	2228	358
125°	496	569	919	1551	1822	443
135°	595	666	894	1252	1417	460
145°	692	744	882	1072	1153	433
155°	781	812	874	961	993	360
165°	851	859	878	912	917	240
175°	883	882	879	890	888	84
180°	882	882	882	882	882	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1332.9	1332.9	1332.9	1332.9	1332.9
2.5°	1340.8	1329.2	1332.9	1329.8	1325.0
5°	1337.8	1324.6	1329.2	1325.5	1324.3
7.5°	1328.2	1314.9	1321.0	1318.6	1317.3
10°	1319.3	1306.0	1313.2	1310.7	1309.4
12.5°	1307.5	1295.2	1303.3	1300.8	1300.6
15°	1287.2	1276.4	1287.2	1287.2	1286.0
17.5°	1261.8	1251.9	1263.5	1264.3	1263.5
20°	1244.0	1233.2	1247.7	1246.5	1247.7
22.5°	1222.3	1213.4	1229.0	1225.8	1227.0
25°	1188.5	1180.1	1197.1	1193.4	1193.4
27.5°	1148.5	1142.5	1161.1	1157.2	1157.2
30°	1121.9	1115.8	1135.4	1130.5	1130.5
32.5°	1092.2	1088.1	1106.8	1100.9	1100.9
35°	1045.3	1042.9	1061.4	1054.0	1054.0
37.5°	997.0	994.8	1011.5	1002.6	999.7
40°	961.4	960.2	975.0	965.1	965.1
42.5°	925.9	924.7	937.5	925.6	925.6
45°	871.3	868.9	877.5	866.3	863.9
47.5°	811.8	809.4	814.8	802.7	801.5
50°	771.4	768.9	771.4	760.2	759.0
52.5°	729.9	725.5	725.9	714.8	714.6
55°	666.4	658.0	657.8	647.9	647.9
57.5°	599.3	588.2	589.2	580.8	579.6
60°	552.9	540.8	541.8	534.4	533.2
62.5°	507.5	493.5	496.4	488.0	487.7
65°	432.0	422.3	423.3	419.6	419.6
67.5°	359.4	350.5	356.9	354.0	353.7
70°	306.1	300.0	308.5	308.5	307.3
72.5°	256.7	256.5	267.1	267.1	267.8
75°	186.4	194.8	206.1	207.3	207.3
77.5°	124.4	139.4	151.8	152.3	152.0
80°	88.9	105.8	117.2	119.7	118.5
82.5°	60.2	78.1	87.6	90.1	88.9
85°	27.2	41.6	49.4	50.6	49.4
87.5°	8.3	17.7	22.2	22.4	20.2
90°	1.9	5.6	12.3	13.3	12.3
92.5°	27.0	98.2	193.8	84.2	60.9
95°	63.6	223.3	681.6	352.7	209.8
97.5°	102.1	256.0	1062.5	879.3	645.7
100°	131.0	269.3	1180.9	1231.6	995.8
102.5°	157.6	287.7	1222.7	1498.7	1322.4
105°	206.0	318.3	1229.3	1813.4	1739.1
107.5°	250.8	353.3	1175.6	2009.7	2034.4
110°	285.7	378.6	1127.8	2062.4	2167.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	316.9	403.8	1083.7	2051.8	2228.0
115°	362.6	443.4	1019.6	1973.7	2228.0
117.5°	407.4	483.2	977.2	1854.3	2142.6
120°	434.8	509.0	952.2	1768.6	2062.8
122.5°	460.6	533.4	937.0	1676.8	1973.2
125°	496.5	568.9	918.9	1550.7	1821.7
127.5°	529.5	600.6	908.3	1447.8	1686.2
130°	547.7	621.1	903.7	1384.2	1599.6
132.5°	566.7	639.3	899.2	1326.9	1525.2
135°	595.2	665.8	894.2	1252.1	1417.3
137.5°	623.9	690.5	890.1	1191.4	1326.0
140°	643.6	705.8	888.5	1152.3	1272.1
142.5°	662.6	721.1	885.5	1117.1	1221.9
145°	692.0	744.0	881.9	1071.7	1153.4
147.5°	718.8	764.9	877.7	1030.7	1093.4
150°	738.6	779.4	876.2	1008.4	1058.5
152.5°	756.8	792.4	875.4	987.6	1028.9
155°	781.3	811.9	874.3	961.4	993.0
157.5°	806.7	828.1	874.5	943.1	963.9
160°	821.1	838.8	875.3	931.6	946.5
162.5°	832.5	847.2	876.0	922.4	933.5
165°	850.6	858.9	878.1	912.4	917.0
167.5°	862.9	868.7	878.3	903.8	906.0
170°	870.5	873.3	879.1	899.9	899.9
172.5°	876.6	877.1	879.1	895.4	894.6
175°	882.9	881.9	879.1	890.4	888.5
177.5°	884.9	882.7	878.9	886.4	884.2
180°	881.9	881.9	881.9	881.9	881.9

(END OF REPORT)