

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: P563166

Luminaire Tested: **SQ4-PC3-150U-125D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563166
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-125D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

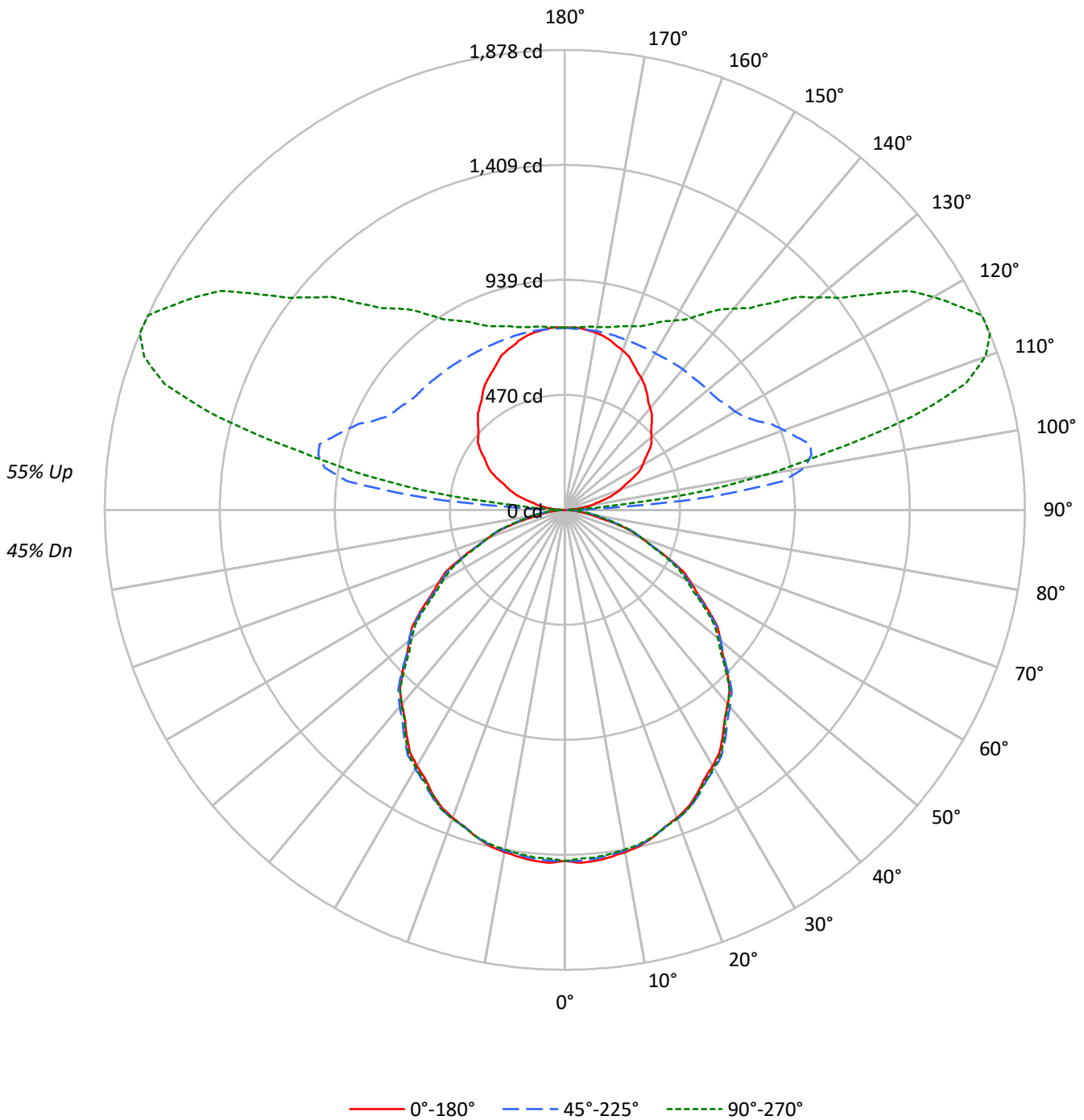
Lumens per Lamp: N/A
Luminaire Lumens: 8708.7 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.1
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45
1	97	92	89	85	88	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	80	74	69	65	62	58	55	51	48	46	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	49	37	30	25	45	35	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13230	13230	13230
5°	13330	13244	13195
10°	13298	13236	13198
15°	13228	13228	13215
20°	13141	13180	13180
25°	13017	13111	13071
30°	12859	13014	12957
35°	12666	12861	12771
40°	12457	12633	12505
45°	12231	12318	12127
50°	11912	11912	11721
55°	11533	11384	11213
60°	10975	10756	10584
65°	10145	9942	9855
70°	8883	8953	8918
75°	7147	7903	7953
80°	5079	6700	6774
85°	3091	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	1.6
10°-20°	389.5	4.5
20°-30°	589.8	6.8
30°-40°	707.1	8.1
40°-50°	721.0	8.3
50°-60°	629.4	7.2
60°-70°	450.5	5.2
70°-80°	232.1	2.7
80°-90°	60.2	0.7
90°-100°	345.5	4.0
100°-110°	934.2	10.7
110°-120°	982.2	11.3
120°-130°	797.8	9.2
130°-140°	625.8	7.2
140°-150°	480.3	5.5
150°-160°	345.4	4.0
160°-170°	211.0	2.4
170°-180°	71.1	0.8
0°-30°	1115.0	12.8
0°-40°	1822.0	20.9
0°-60°	3172.3	36.4
0°-90°	3915.2	45.0
90°-120°	2262.0	26.0
90°-150°	4166.0	47.8
90°-180°	4794.0	55.0
0°-180°	8708.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1439	1425	1430	1426	1425	137
15°	1385	1373	1385	1385	1384	390
25°	1279	1270	1288	1284	1284	588
35°	1125	1122	1142	1134	1134	703
45°	937	935	944	932	929	722
55°	717	708	708	697	697	639
65°	465	454	455	451	451	460
75°	200	210	222	223	223	217
85°	29	45	53	54	53	40
90°	2	5	10	11	10	5
95°	54	188	575	297	177	56
105°	174	268	1036	1529	1466	183
115°	306	374	860	1664	1878	302
125°	419	480	775	1307	1536	373
135°	502	561	754	1056	1195	388
145°	583	627	744	904	972	365
155°	659	684	737	810	837	304
165°	717	724	740	769	773	202
175°	744	744	741	751	749	71
180°	744	744	744	744	744	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1434.0	1434.0	1434.0	1434.0	1434.0
2.5°	1442.5	1430.0	1434.0	1430.7	1425.5
5°	1439.3	1425.0	1430.0	1426.0	1424.7
7.5°	1429.0	1414.7	1421.3	1418.6	1417.3
10°	1419.4	1405.1	1412.8	1410.1	1408.8
12.5°	1406.6	1393.4	1402.1	1399.5	1399.2
15°	1384.9	1373.2	1384.9	1384.8	1383.5
17.5°	1357.5	1346.9	1359.4	1360.2	1359.4
20°	1338.4	1326.7	1342.4	1341.1	1342.4
22.5°	1315.0	1305.4	1322.2	1318.8	1320.1
25°	1278.7	1269.6	1287.9	1284.0	1284.0
27.5°	1235.6	1229.1	1249.2	1244.9	1244.9
30°	1207.0	1200.5	1221.6	1216.2	1216.2
32.5°	1175.1	1170.7	1190.8	1184.4	1184.4
35°	1124.6	1122.0	1141.9	1133.9	1133.9
37.5°	1072.6	1070.2	1088.2	1078.6	1075.5
40°	1034.3	1033.0	1048.9	1038.3	1038.3
42.5°	996.1	994.8	1008.6	995.8	995.8
45°	937.4	934.8	944.1	932.0	929.4
47.5°	873.4	870.8	876.6	863.6	862.3
50°	829.9	827.3	829.9	817.9	816.6
52.5°	785.2	780.6	781.0	769.0	768.8
55°	717.0	707.9	707.7	697.1	697.1
57.5°	644.8	632.8	633.9	624.8	623.5
60°	594.8	581.9	582.9	574.9	573.6
62.5°	546.0	530.9	534.0	525.0	524.7
65°	464.7	454.3	455.4	451.4	451.4
67.5°	386.6	377.0	384.0	380.8	380.5
70°	329.3	322.8	331.9	331.9	330.6
72.5°	276.2	275.9	287.3	287.3	288.1
75°	200.5	209.6	221.7	223.1	223.1
77.5°	133.8	149.9	163.3	163.8	163.6
80°	95.6	113.8	126.1	128.8	127.5
82.5°	64.8	84.0	94.3	96.9	95.6
85°	29.2	44.8	53.1	54.4	53.1
87.5°	8.8	18.8	23.3	23.4	21.2
90°	1.6	4.7	10.4	11.2	10.4
92.5°	22.7	82.8	163.4	70.9	51.4
95°	53.6	188.2	574.6	297.4	176.9
97.5°	86.1	215.9	895.7	741.3	544.4
100°	110.4	227.0	995.6	1038.3	839.5
102.5°	132.9	242.6	1030.8	1263.5	1114.8
105°	173.7	268.4	1036.4	1528.8	1466.2
107.5°	211.4	297.8	991.1	1694.3	1715.1
110°	240.9	319.1	950.8	1738.7	1827.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.1	340.4	913.6	1729.8	1878.3
115°	305.7	373.8	859.5	1663.9	1878.3
117.5°	343.5	407.4	823.8	1563.3	1806.3
120°	366.5	429.1	802.7	1491.0	1739.1
122.5°	388.3	449.7	789.9	1413.6	1663.5
125°	418.6	479.6	774.7	1307.3	1535.8
127.5°	446.4	506.4	765.7	1220.6	1421.5
130°	461.8	523.6	761.9	1167.0	1348.5
132.5°	477.8	539.0	758.1	1118.6	1285.8
135°	501.8	561.3	753.9	1055.6	1194.9
137.5°	526.0	582.2	750.4	1004.4	1117.9
140°	542.6	595.0	749.1	971.5	1072.4
142.5°	558.6	607.9	746.5	941.7	1030.2
145°	583.4	627.3	743.5	903.5	972.4
147.5°	606.0	644.8	740.0	868.9	921.8
150°	622.6	657.1	738.7	850.1	892.4
152.5°	638.0	668.1	738.1	832.6	867.4
155°	658.7	684.5	737.1	810.5	837.1
157.5°	680.1	698.1	737.3	795.1	812.6
160°	692.3	707.1	737.9	785.4	797.9
162.5°	701.9	714.2	738.5	777.6	787.0
165°	717.1	724.1	740.3	769.2	773.1
167.5°	727.5	732.3	740.5	761.9	763.8
170°	733.9	736.2	741.1	758.7	758.7
172.5°	739.0	739.5	741.1	754.8	754.2
175°	744.3	743.5	741.1	750.7	749.1
177.5°	746.1	744.2	740.9	747.3	745.4
180°	743.5	743.5	743.5	743.5	743.5

(END OF REPORT)