

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: P563083

Luminaire Tested: **SQ4-PC3-150U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563083
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-050D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

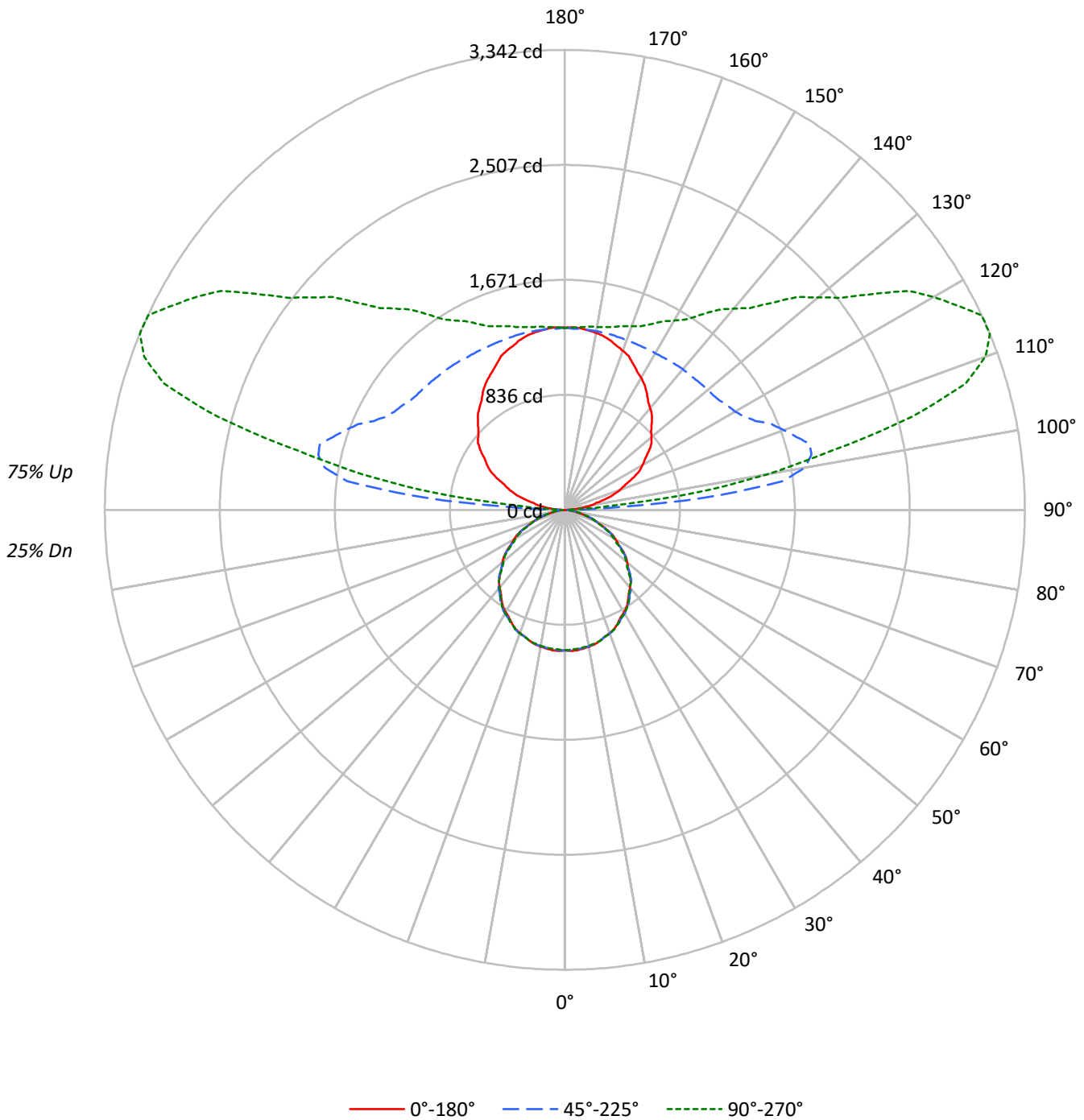
Lumens per Lamp: N/A
Luminaire Lumens: 11318.0 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 84.1
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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25				
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21				
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	24	23	17				
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15				
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13				
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11				
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10				
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8				
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10	8				
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7				
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6279	6279	6279
5°	6327	6286	6263
10°	6311	6282	6264
15°	6279	6279	6272
20°	6237	6256	6256
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6105	6062
40°	5913	5996	5935
45°	5805	5846	5756
50°	5653	5653	5563
55°	5474	5403	5322
60°	5210	5105	5024
65°	4816	4718	4678
70°	4215	4250	4233
75°	3391	3752	3774
80°	2412	3181	3213
85°	1468	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	0.9
10°-20°	277.3	2.4
20°-30°	419.9	3.7
30°-40°	503.4	4.4
40°-50°	513.3	4.5
50°-60°	448.1	4.0
60°-70°	320.8	2.8
70°-80°	165.2	1.5
80°-90°	44.5	0.4
90°-100°	614.8	5.4
100°-110°	1662.2	14.7
110°-120°	1747.6	15.4
120°-130°	1419.5	12.5
130°-140°	1113.5	9.8
140°-150°	854.6	7.6
150°-160°	614.6	5.4
160°-170°	375.5	3.3
170°-180°	126.6	1.1
0°-30°	793.8	7.0
0°-40°	1297.2	11.5
0°-60°	2258.5	20.0
0°-90°	2789.1	24.6
90°-120°	4024.6	35.6
90°-150°	7412.3	65.5
90°-180°	8529.0	75.4
0°-180°	11318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1025	1014	1018	1015	1014	97
15°	986	978	986	986	985	278
25°	910	904	917	914	914	419
35°	801	799	813	807	807	501
45°	667	666	672	664	662	514
55°	510	504	504	496	496	455
65°	331	324	324	321	321	327
75°	143	149	158	159	159	154
85°	21	32	38	39	38	28
90°	3	8	18	20	18	7
95°	95	335	1022	529	315	100
105°	309	478	1844	2720	2609	325
115°	544	665	1529	2960	3342	537
125°	745	853	1378	2326	2733	664
135°	893	999	1341	1878	2126	690
145°	1038	1116	1323	1608	1730	649
155°	1172	1218	1312	1442	1490	541
165°	1276	1288	1317	1369	1376	359
175°	1324	1323	1319	1336	1333	126
180°	1323	1323	1323	1323	1323	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.9	1020.9	1020.9	1020.9	1020.9
2.5°	1027.0	1018.1	1020.9	1018.6	1014.9
5°	1024.7	1014.5	1018.1	1015.2	1014.3
7.5°	1017.3	1007.2	1011.9	1009.9	1009.0
10°	1010.5	1000.4	1005.8	1003.9	1003.0
12.5°	1001.5	992.0	998.2	996.3	996.2
15°	986.0	977.6	986.0	985.9	985.0
17.5°	966.5	958.9	967.8	968.4	967.8
20°	952.9	944.6	955.7	954.8	955.7
22.5°	936.2	929.4	941.3	938.9	939.8
25°	910.3	903.9	916.9	914.1	914.1
27.5°	879.7	875.1	889.3	886.3	886.3
30°	859.3	854.7	869.7	865.9	865.9
32.5°	836.6	833.5	847.8	843.2	843.2
35°	800.7	798.8	813.0	807.3	807.3
37.5°	763.6	762.0	774.8	767.9	765.7
40°	736.4	735.5	746.8	739.2	739.2
42.5°	709.2	708.2	718.1	709.0	709.0
45°	667.4	665.5	672.1	663.6	661.7
47.5°	621.8	620.0	624.1	614.8	613.9
50°	590.8	589.0	590.8	582.3	581.4
52.5°	559.1	555.7	556.0	547.5	547.3
55°	510.5	504.0	503.8	496.3	496.3
57.5°	459.0	450.5	451.3	444.8	443.9
60°	423.5	414.3	415.0	409.3	408.4
62.5°	388.7	378.0	380.2	373.8	373.6
65°	330.9	323.5	324.2	321.4	321.4
67.5°	275.3	268.4	273.4	271.1	270.9
70°	234.4	229.8	236.3	236.3	235.4
72.5°	196.6	196.4	204.6	204.6	205.1
75°	142.7	149.2	157.9	158.8	158.8
77.5°	95.3	106.7	116.3	116.6	116.5
80°	68.1	81.0	89.8	91.7	90.7
82.5°	46.1	59.8	67.1	69.0	68.1
85°	20.8	31.9	37.8	38.7	37.8
87.5°	6.6	14.4	18.8	19.1	17.3
90°	2.8	8.4	18.5	19.9	18.5
92.5°	40.4	147.4	290.8	126.2	91.4
95°	95.4	334.9	1022.4	529.1	314.7
97.5°	153.2	384.1	1593.7	1318.9	968.6
100°	196.5	404.0	1771.4	1847.4	1493.7
102.5°	236.4	431.6	1834.1	2248.1	1983.6
105°	309.0	477.5	1844.0	2720.1	2608.7
107.5°	376.2	529.9	1763.4	3014.5	3051.5
110°	428.6	567.8	1691.7	3093.6	3250.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	475.3	605.6	1625.6	3077.8	3342.0
115°	544.0	665.1	1529.3	2960.5	3342.0
117.5°	611.2	724.8	1465.8	2781.4	3213.9
120°	652.2	763.6	1428.2	2652.9	3094.3
122.5°	690.9	800.1	1405.4	2515.1	2959.8
125°	744.7	853.3	1378.4	2326.0	2732.6
127.5°	794.3	900.9	1362.4	2171.7	2529.2
130°	821.6	931.6	1355.6	2076.4	2399.4
132.5°	850.1	959.0	1348.8	1990.3	2287.7
135°	892.8	998.6	1341.4	1878.1	2126.0
137.5°	935.8	1035.8	1335.1	1787.1	1989.0
140°	965.4	1058.7	1332.8	1728.5	1908.1
142.5°	993.9	1081.6	1328.3	1675.6	1832.9
145°	1038.1	1116.0	1322.9	1607.6	1730.1
147.5°	1078.2	1147.3	1316.6	1546.0	1640.1
150°	1107.8	1169.1	1314.3	1512.5	1587.7
152.5°	1135.2	1188.6	1313.2	1481.5	1543.3
155°	1171.9	1217.9	1311.5	1442.1	1489.5
157.5°	1210.1	1242.1	1311.7	1414.7	1445.9
160°	1231.7	1258.2	1312.9	1397.4	1419.7
162.5°	1248.8	1270.8	1314.0	1383.6	1400.3
165°	1275.9	1288.4	1317.2	1368.6	1375.5
167.5°	1294.4	1303.0	1317.4	1355.7	1359.0
170°	1305.8	1309.9	1318.6	1349.9	1349.9
172.5°	1314.9	1315.7	1318.6	1343.1	1341.9
175°	1324.3	1322.9	1318.6	1335.6	1332.8
177.5°	1327.4	1324.1	1318.3	1329.6	1326.3
180°	1322.9	1322.9	1322.9	1322.9	1322.9

(END OF REPORT)