

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: P563703

Luminaire Tested: **SQ4-PP3-125U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563703
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

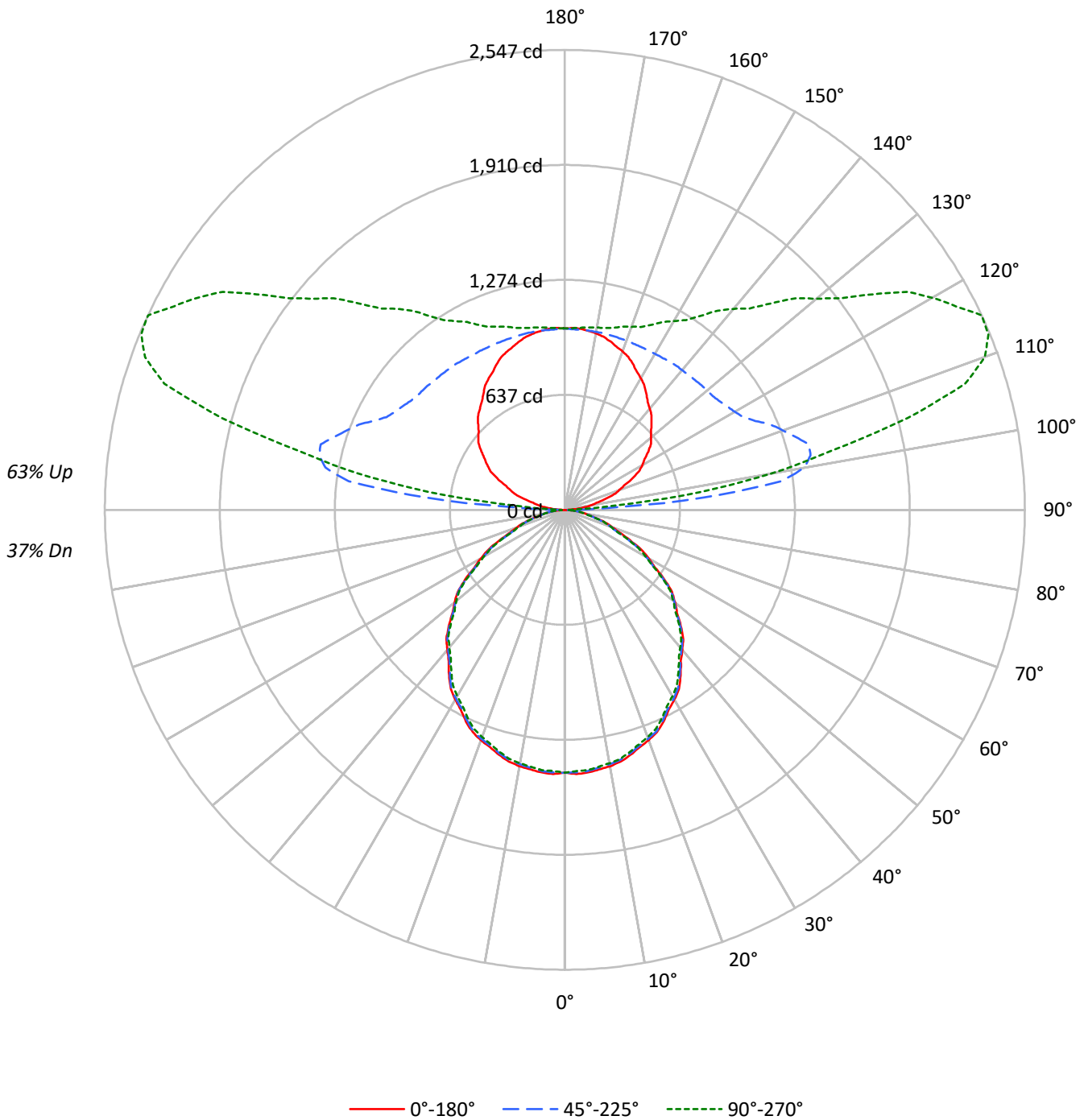
Lumens per Lamp: N/A
Luminaire Lumens: 10210.7 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8953	8953	8953
5°	9019	8964	8932
10°	9004	8940	8900
15°	8944	8895	8847
20°	8885	8835	8768
25°	8779	8719	8632
30°	8617	8572	8463
35°	8392	8334	8229
40°	8123	8072	7980
45°	7901	7846	7768
50°	7618	7569	7495
55°	7223	7128	7073
60°	6575	6387	6356
65°	5793	5551	5533
70°	5001	4794	4794
75°	4306	4244	4185
80°	3797	3840	3751
85°	2971	3239	3239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.3
10°-20°	393.0	3.8
20°-30°	588.7	5.8
30°-40°	690.5	6.8
40°-50°	692.7	6.8
50°-60°	590.9	5.8
60°-70°	385.4	3.8
70°-80°	193.3	1.9
80°-90°	55.9	0.5
90°-100°	469.8	4.6
100°-110°	1265.4	12.4
110°-120°	1328.0	13.0
120°-130°	1077.7	10.6
130°-140°	845.2	8.3
140°-150°	648.9	6.4
150°-160°	466.6	4.6
160°-170°	285.0	2.8
170°-180°	96.1	0.9
0°-30°	1119.3	11.0
0°-40°	1809.9	17.7
0°-60°	3093.4	30.3
0°-90°	3728.0	36.5
90°-120°	3063.3	30.0
90°-150°	5635.0	55.2
90°-180°	6483.0	63.5
0°-180°	10210.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1461	1447	1452	1447	1447	139
15°	1405	1391	1397	1392	1389	396
25°	1294	1279	1285	1273	1272	595
35°	1118	1106	1110	1097	1096	698
45°	908	902	902	893	893	699
55°	674	671	665	661	660	599
65°	398	391	381	379	380	397
75°	181	181	179	177	176	197
85°	42	46	46	46	46	50
90°	3	8	15	17	17	7
95°	72	256	770	394	272	75
105°	234	364	1400	2094	1965	246
115°	413	506	1165	2252	2547	407
125°	564	648	1046	1769	2081	504
135°	679	758	1017	1427	1616	524
145°	786	847	1004	1220	1310	493
155°	892	924	995	1094	1130	410
165°	967	978	999	1039	1044	273
175°	1006	1004	1000	1014	1012	96
180°	1004	1004	1004	1004	1004	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1455.6	1455.6	1455.6	1455.6	1455.6
2.5°	1464.8	1452.8	1455.6	1453.5	1447.5
5°	1460.7	1447.0	1451.8	1446.7	1446.7
7.5°	1450.8	1435.8	1440.6	1435.5	1435.2
10°	1441.6	1426.6	1431.4	1426.3	1425.0
12.5°	1428.3	1413.4	1419.1	1413.0	1412.8
15°	1404.6	1390.9	1396.9	1391.8	1389.3
17.5°	1377.8	1362.8	1370.2	1363.0	1362.0
20°	1357.4	1342.4	1349.7	1339.5	1339.5
22.5°	1332.9	1317.9	1326.3	1313.0	1313.0
25°	1293.6	1278.6	1284.7	1273.2	1271.9
27.5°	1246.9	1232.2	1238.5	1225.5	1225.2
30°	1213.2	1199.5	1206.9	1192.8	1191.6
32.5°	1176.5	1163.8	1169.1	1155.0	1153.8
35°	1117.6	1106.3	1109.9	1097.1	1095.9
37.5°	1055.6	1044.1	1048.2	1037.2	1036.7
40°	1011.7	1004.2	1005.3	996.3	993.8
42.5°	970.8	962.4	963.4	954.5	954.0
45°	908.3	902.1	902.0	893.0	893.0
47.5°	842.0	837.3	835.9	828.5	828.2
50°	796.1	792.3	791.0	784.6	783.3
52.5°	748.1	746.4	742.0	736.6	736.4
55°	673.6	671.1	664.7	660.8	659.6
57.5°	592.7	587.7	580.5	574.9	575.9
60°	534.5	529.6	519.2	516.7	516.7
62.5°	478.4	472.4	462.1	458.6	460.5
65°	398.0	390.6	381.4	378.9	380.2
67.5°	325.1	318.3	308.5	308.5	307.5
70°	278.1	274.4	266.6	266.6	266.6
72.5°	236.3	234.5	228.9	228.8	227.8
75°	181.2	181.2	178.6	177.3	176.1
77.5°	135.7	136.2	135.0	133.6	131.4
80°	107.2	109.7	108.4	107.1	105.9
82.5°	80.6	83.1	82.9	80.6	80.4
85°	42.1	45.8	45.9	45.9	45.9
87.5°	11.7	16.7	19.4	19.7	20.7
90°	2.6	7.6	15.4	16.6	16.6
92.5°	31.2	110.3	218.0	104.9	72.9
95°	71.6	255.5	770.1	393.8	272.5
97.5°	114.4	292.5	1207.9	1009.1	760.9
100°	147.1	307.2	1347.0	1409.4	1169.2
102.5°	178.8	327.9	1393.1	1709.2	1512.1
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.3	402.4	1339.9	2291.4	2324.6
110°	321.1	431.2	1285.6	2352.7	2474.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	460.0	1233.4	2339.1	2538.5
115°	413.2	505.8	1165.4	2251.8	2547.0
117.5°	463.6	550.4	1112.7	2112.3	2441.0
120°	496.3	580.2	1086.1	2012.2	2350.0
122.5°	525.0	607.8	1066.6	1909.9	2246.6
125°	564.1	648.0	1046.4	1768.6	2081.3
127.5°	601.8	684.3	1033.6	1644.0	1923.2
130°	624.3	706.8	1028.5	1572.6	1817.8
132.5°	646.8	728.3	1023.4	1509.8	1734.9
135°	679.3	758.1	1017.0	1426.8	1615.7
137.5°	710.2	785.8	1013.7	1356.5	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.8	1008.6	1272.7	1390.8
145°	785.5	846.7	1004.2	1219.9	1309.9
147.5°	819.2	872.5	999.9	1175.4	1246.2
150°	841.7	888.0	997.8	1147.5	1206.3
152.5°	862.2	902.5	996.8	1124.8	1172.6
155°	891.6	924.2	995.2	1094.5	1129.6
157.5°	917.5	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.2	965.4	997.6	1050.5	1063.0
165°	967.1	978.4	999.1	1038.9	1043.9
167.5°	982.5	989.0	1000.4	1029.8	1031.8
170°	992.7	995.2	1000.4	1024.7	1024.7
172.5°	998.8	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.2	1000.4	1014.4	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.3
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)