

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: P564378

Luminaire Tested: **SQ4-PR1-125U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564378
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

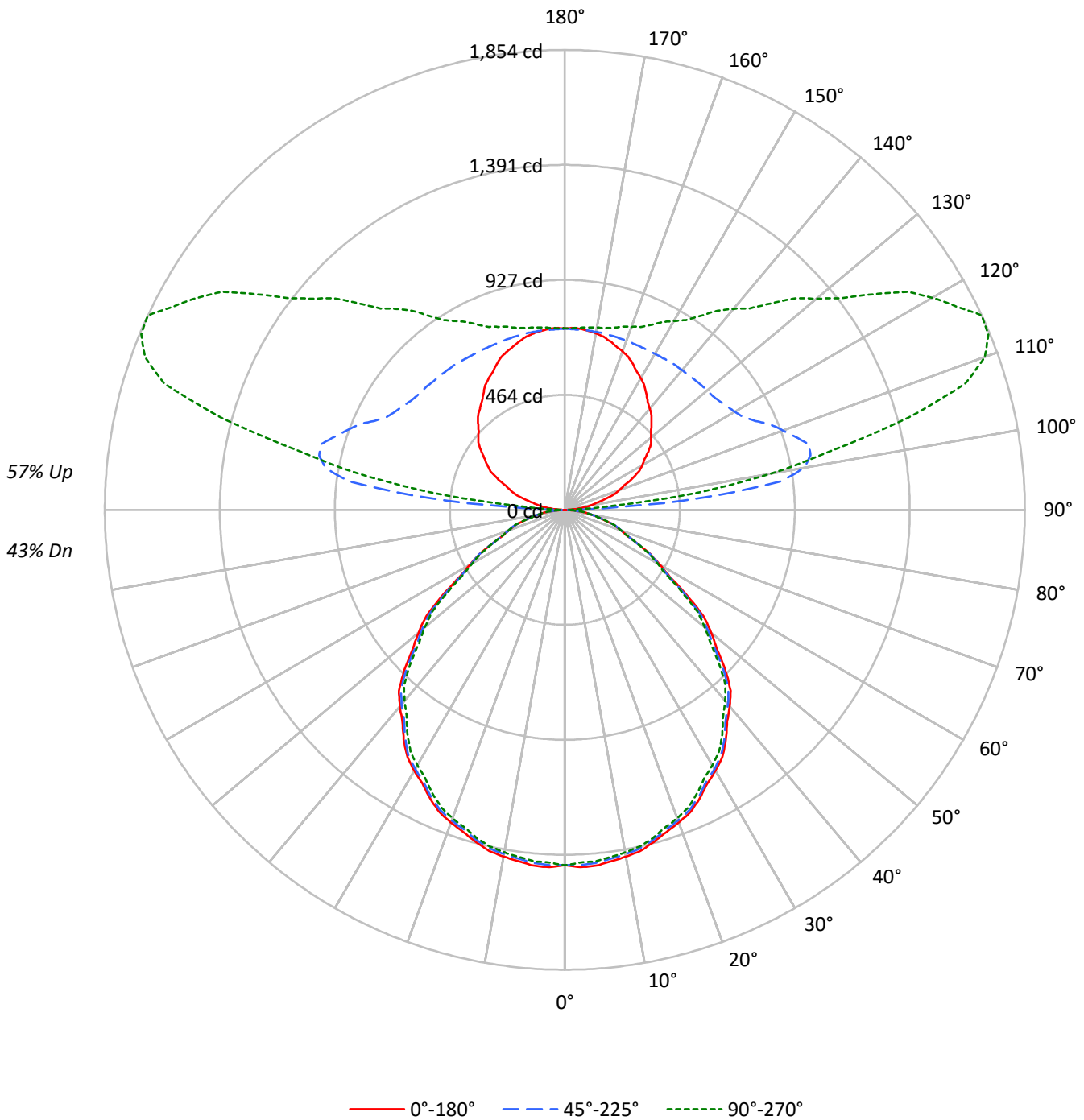
Lumens per Lamp: N/A
Luminaire Lumens: 8302.5 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.5
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	96	96	96	96	80	80	80	64	64	64	50	50	50	43
1	96	92	89	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	39	38	36	31
3	80	71	64	59	73	65	59	54	55	50	46	44	41	39	35	33	31	27
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	31	29	27	23
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	28	26	24	20
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21	18
7	58	46	38	32	53	42	35	30	36	30	26	29	25	22	24	21	19	16
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	45	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	35	27	23	42	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13220	13220	13220
5°	13339	13236	13168
10°	13297	13204	13135
15°	13239	13156	13085
20°	13171	13087	12990
25°	13079	12991	12840
30°	12938	12846	12662
35°	12746	12636	12455
40°	12456	12322	12099
45°	11948	11739	11498
50°	11054	10788	10576
55°	9648	9429	9231
60°	8130	8062	7903
65°	7032	7060	7006
70°	6458	6493	6493
75°	6203	6203	6249
80°	5834	5903	5834
85°	4700	5229	5229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.5	1.6
10°-20°	387.7	4.7
20°-30°	584.7	7.0
30°-40°	696.7	8.4
40°-50°	686.9	8.3
50°-60°	525.0	6.3
60°-70°	324.9	3.9
70°-80°	184.5	2.2
80°-90°	57.8	0.7
90°-100°	342.0	4.1
100°-110°	921.1	11.1
110°-120°	966.7	11.6
120°-130°	784.4	9.4
130°-140°	615.2	7.4
140°-150°	472.3	5.7
150°-160°	339.6	4.1
160°-170°	207.5	2.5
170°-180°	70.0	0.8
0°-30°	1107.9	13.3
0°-40°	1804.6	21.7
0°-60°	3016.5	36.3
0°-90°	3583.7	43.2
90°-120°	2229.8	26.9
90°-150°	4101.8	49.4
90°-180°	4719.0	56.8
0°-180°	8302.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1433	1433	1433	1433	1433	
5°	1440	1425	1429	1424	1422	137
15°	1386	1372	1377	1372	1370	391
25°	1285	1269	1276	1262	1261	591
35°	1132	1118	1122	1107	1106	706
45°	916	904	900	884	881	702
55°	600	590	586	576	574	537
65°	322	320	323	321	321	326
75°	174	174	174	175	175	184
85°	44	47	49	49	49	52
90°	2	6	11	12	12	5
95°	52	186	561	287	198	54
105°	170	265	1019	1524	1430	179
115°	301	368	848	1639	1854	296
125°	411	472	762	1287	1515	367
135°	494	552	740	1039	1176	382
145°	572	616	731	888	954	359
155°	649	673	724	797	822	299
165°	704	712	727	756	760	199
175°	732	731	728	738	737	70
180°	731	731	731	731	731	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1432.9	1432.9	1432.9	1432.9	1432.9
2.5°	1441.7	1429.2	1432.9	1429.7	1423.0
5°	1440.3	1424.6	1429.2	1424.2	1421.8
7.5°	1429.2	1413.7	1418.3	1413.3	1411.9
10°	1419.3	1404.8	1409.4	1404.4	1402.0
12.5°	1408.4	1393.0	1398.6	1392.6	1390.2
15°	1386.0	1371.5	1377.3	1372.3	1369.9
17.5°	1361.3	1345.8	1351.7	1345.9	1342.8
20°	1341.5	1327.1	1332.9	1324.2	1323.0
22.5°	1319.8	1305.3	1311.2	1299.6	1299.3
25°	1284.8	1269.1	1276.1	1262.5	1261.3
27.5°	1243.0	1228.6	1234.4	1220.6	1219.1
30°	1214.4	1199.9	1205.8	1190.9	1188.5
32.5°	1181.8	1168.3	1173.2	1158.4	1156.9
35°	1131.7	1118.5	1121.9	1107.0	1105.8
37.5°	1074.7	1062.6	1064.6	1048.3	1047.1
40°	1034.2	1022.2	1023.1	1005.8	1004.6
42.5°	989.8	977.7	976.7	959.4	958.2
45°	915.7	903.7	899.7	883.6	881.2
47.5°	831.3	819.3	811.8	798.7	797.0
50°	770.1	758.0	751.6	740.4	736.8
52.5°	704.0	691.9	686.4	676.2	672.6
55°	599.8	590.1	586.2	576.3	573.9
57.5°	500.8	494.3	493.2	483.5	482.6
60°	440.6	437.0	436.9	428.3	428.3
62.5°	389.3	386.6	388.5	382.8	381.8
65°	322.1	319.7	323.4	320.9	320.9
67.5°	269.0	269.0	271.3	270.3	270.3
70°	239.4	239.4	240.7	240.7	240.7
72.5°	212.8	211.8	215.0	215.0	214.0
75°	174.0	174.0	174.0	175.3	175.3
77.5°	135.5	135.8	136.7	136.5	135.5
80°	109.8	111.0	111.1	109.8	109.8
82.5°	84.2	85.4	85.4	85.1	84.2
85°	44.4	46.8	49.4	49.4	49.4
87.5°	13.2	17.8	22.0	22.1	21.2
90°	1.9	5.5	11.2	12.1	12.1
92.5°	22.7	80.3	158.7	76.4	53.1
95°	52.1	186.0	560.6	286.7	198.3
97.5°	83.2	212.9	879.2	734.5	553.9
100°	107.1	223.6	980.5	1025.9	851.1
102.5°	130.2	238.7	1014.0	1244.1	1100.6
105°	170.4	265.1	1018.7	1524.1	1430.3
107.5°	208.4	292.9	975.3	1667.9	1692.1
110°	233.7	313.8	935.8	1712.6	1800.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.5	334.8	897.8	1702.7	1847.8
115°	300.8	368.1	848.3	1639.1	1854.0
117.5°	337.5	400.6	809.9	1537.6	1776.9
120°	361.3	422.3	790.6	1464.7	1710.6
122.5°	382.2	442.4	776.4	1390.2	1635.3
125°	410.6	471.6	761.7	1287.4	1515.0
127.5°	438.0	498.1	752.4	1196.7	1399.9
130°	454.4	514.5	748.7	1144.7	1323.2
132.5°	470.8	530.2	744.9	1099.0	1262.9
135°	494.5	551.8	740.3	1038.6	1176.1
137.5°	517.0	572.0	737.9	987.4	1100.3
140°	532.6	585.4	735.6	955.8	1057.8
142.5°	549.0	598.2	734.1	926.4	1012.4
145°	571.7	616.4	731.0	888.0	953.5
147.5°	596.3	635.1	727.8	855.6	907.1
150°	612.7	646.4	726.3	835.3	878.1
152.5°	627.6	656.9	725.6	818.7	853.5
155°	649.0	672.7	724.4	796.7	822.2
157.5°	667.8	686.2	724.6	781.3	798.4
160°	679.8	695.2	725.4	772.2	785.0
162.5°	690.2	702.7	726.1	764.7	773.8
165°	704.0	712.2	727.2	756.2	759.8
167.5°	715.1	719.9	728.2	749.6	751.1
170°	722.6	724.4	728.2	745.9	745.9
172.5°	727.1	727.4	728.9	742.1	742.1
175°	731.9	731.0	728.2	738.4	736.6
177.5°	733.9	732.5	728.7	734.7	733.2
180°	731.0	731.0	731.0	731.0	731.0

(END OF REPORT)