

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: P564474

Luminaire Tested: **SQ4-PR1-150U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564474
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

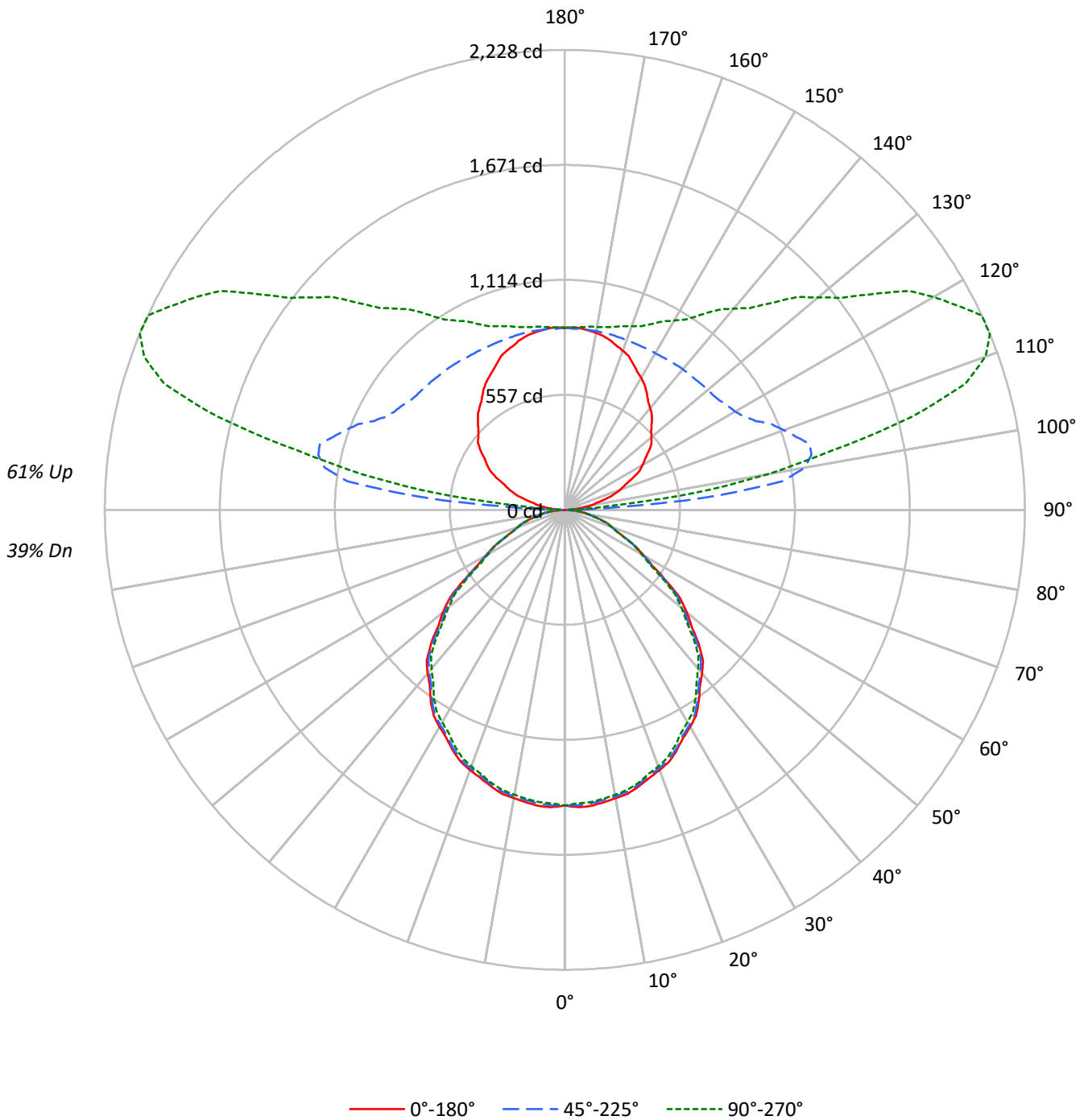
Lumens per Lamp: N/A
Luminaire Lumens: 9269.8 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

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	1.5
10°-20°	387.7	4.2
20°-30°	584.7	6.3
30°-40°	696.7	7.5
40°-50°	686.9	7.4
50°-60°	525.0	5.7
60°-70°	324.9	3.5
70°-80°	184.5	2.0
80°-90°	58.0	0.6
90°-100°	409.8	4.4
100°-110°	1108.2	12.0
110°-120°	1165.1	12.6
120°-130°	946.4	10.2
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°	1107.9	12.0
0°-40°	1804.6	19.5
0°-60°	3016.5	32.5
0°-90°	3583.8	38.7
90°-120°	2683.1	28.9
90°-150°	4941.5	53.3
90°-180°	5686.0	61.3
0°-180°	9269.8	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	12	13	12	6
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°	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	22.2	22.4	21.2
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)