

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: P564090

Luminaire Tested: **SQ4-PR1-075U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564090
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PR1-075U-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

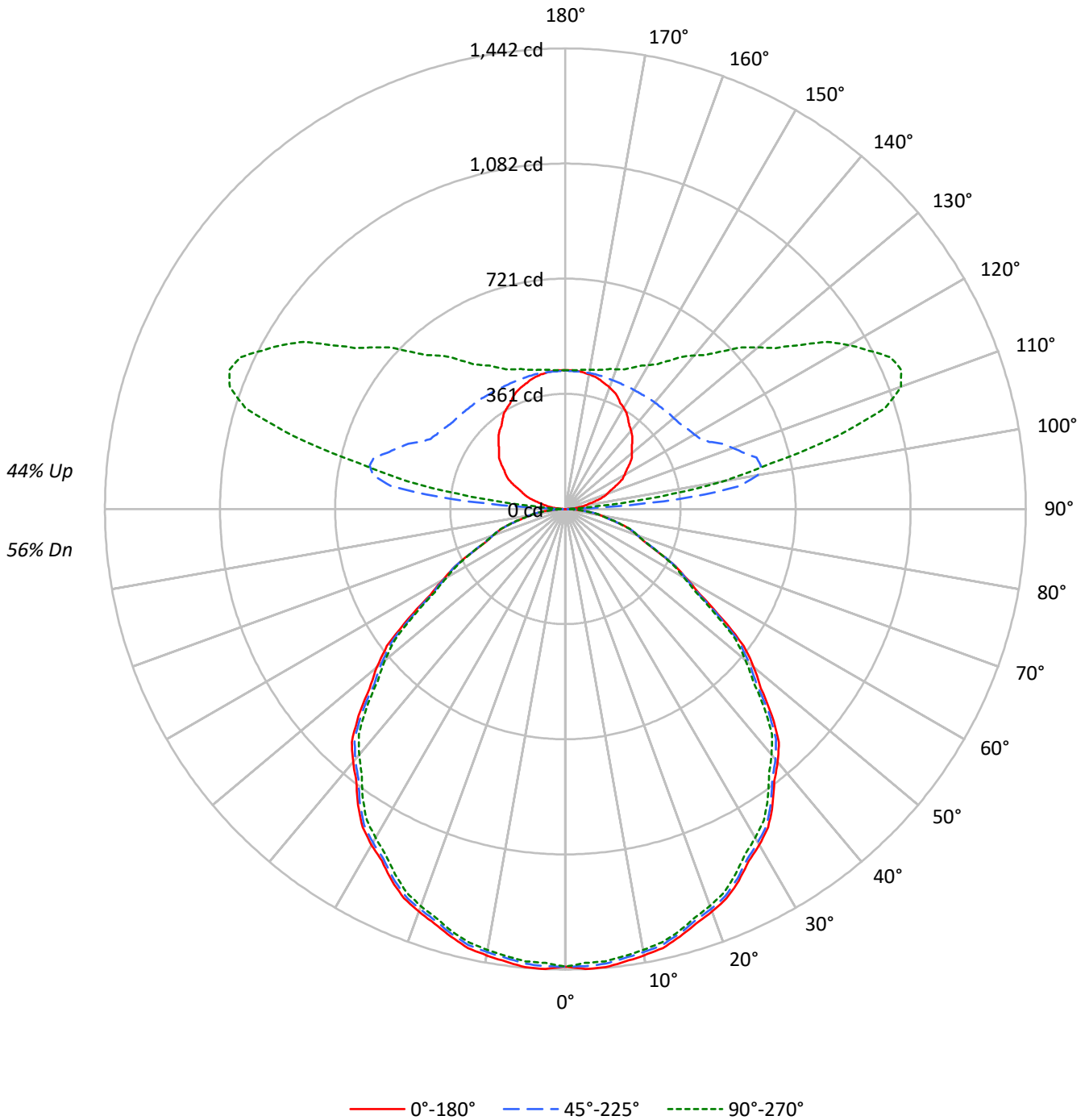
Lumens per Lamp: N/A
Luminaire Lumens: 6408.9 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53	48
2	91	84	77	72	84	78	73	68	67	63	60	58	55	52	49	47	45	41
3	83	74	66	61	77	69	62	57	60	55	51	51	48	45	43	41	38	35
4	76	65	58	52	71	61	54	49	53	48	44	46	42	38	39	36	33	30
5	70	58	50	44	65	55	48	42	48	42	38	41	37	33	35	32	29	26
6	65	53	44	39	60	49	42	37	43	37	33	37	33	29	32	29	26	23
7	60	47	40	34	55	45	37	32	39	33	29	34	30	26	29	26	23	21
8	55	43	35	30	52	41	34	29	36	30	26	31	27	23	27	23	21	18
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	21	19	17
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17	15

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	2.1
10°-20°	387.7	6.0
20°-30°	584.7	9.1
30°-40°	696.7	10.9
40°-50°	686.9	10.7
50°-60°	525.0	8.2
60°-70°	324.9	5.1
70°-80°	184.5	2.9
80°-90°	57.2	0.9
90°-100°	204.6	3.2
100°-110°	562.9	8.8
110°-120°	581.0	9.1
120°-130°	465.5	7.3
130°-140°	365.6	5.7
140°-150°	280.2	4.4
150°-160°	201.4	3.1
160°-170°	123.2	1.9
170°-180°	41.5	0.6
0°-30°	1107.9	17.3
0°-40°	1804.6	28.2
0°-60°	3016.5	47.1
0°-90°	3583.1	55.9
90°-120°	1348.4	21.0
90°-150°	2459.7	38.4
90°-180°	2826.0	44.1
0°-180°	6408.9	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°	1	4	6	8	8	4
95°	30	112	362	155	99	32
105°	101	155	620	944	881	106
115°	178	217	497	990	1124	176
125°	246	280	451	763	894	219
135°	296	329	438	617	699	229
145°	342	366	432	526	567	215
155°	388	400	429	473	486	178
165°	419	424	431	449	451	118
175°	434	435	432	437	436	41
180°	434	434	434	434	434	

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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°	13.0	17.4	21.0	21.4	20.4
90°	0.9	3.6	6.5	8.3	8.3
92.5°	12.7	54.4	94.3	36.2	29.7
95°	30.5	111.7	361.8	154.7	98.8
97.5°	49.7	123.8	552.1	425.4	300.1
100°	63.7	131.4	611.9	617.6	503.9
102.5°	77.0	140.3	627.4	766.2	661.9
105°	100.6	154.7	620.2	944.5	881.4
107.5°	123.1	172.6	584.9	1031.9	1050.6
110°	139.4	184.5	558.4	1053.6	1118.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.1	197.8	531.8	1039.6	1138.5
115°	178.1	216.9	497.4	990.5	1124.1
117.5°	201.0	236.7	475.7	921.7	1072.8
120°	215.0	249.3	466.1	870.2	1026.3
122.5°	227.6	261.9	459.4	824.9	973.1
125°	245.5	279.8	451.3	763.4	894.3
127.5°	262.5	295.1	445.9	712.1	826.9
130°	271.3	304.7	443.0	681.6	786.3
132.5°	281.7	315.1	440.8	654.8	749.4
135°	296.3	328.7	438.4	617.4	698.6
137.5°	309.9	340.1	436.3	587.2	654.2
140°	320.2	348.2	435.6	567.1	627.6
142.5°	329.1	354.9	434.1	549.2	601.0
145°	342.4	365.9	431.9	526.1	566.7
147.5°	356.6	376.8	430.8	505.6	538.1
150°	365.5	383.5	430.1	494.3	519.6
152.5°	373.6	390.2	429.3	484.6	505.6
155°	387.6	400.3	429.2	472.8	486.4
157.5°	397.8	408.1	429.2	463.1	472.5
160°	405.2	413.3	429.2	457.9	465.1
162.5°	411.1	417.7	429.9	453.5	459.2
165°	419.0	424.4	431.0	448.6	451.3
167.5°	424.5	428.7	431.9	444.5	445.2
170°	428.2	430.9	431.9	443.0	443.0
172.5°	431.2	432.4	431.9	440.8	440.0
175°	433.8	434.7	431.9	437.4	436.5
177.5°	434.5	434.5	431.6	435.9	434.5
180°	433.8	433.8	433.8	433.8	433.8

(END OF REPORT)