

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: P563418

Luminaire Tested: **SQ4-PP3-075U-100D-830-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563418
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-PP3-075U-100D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

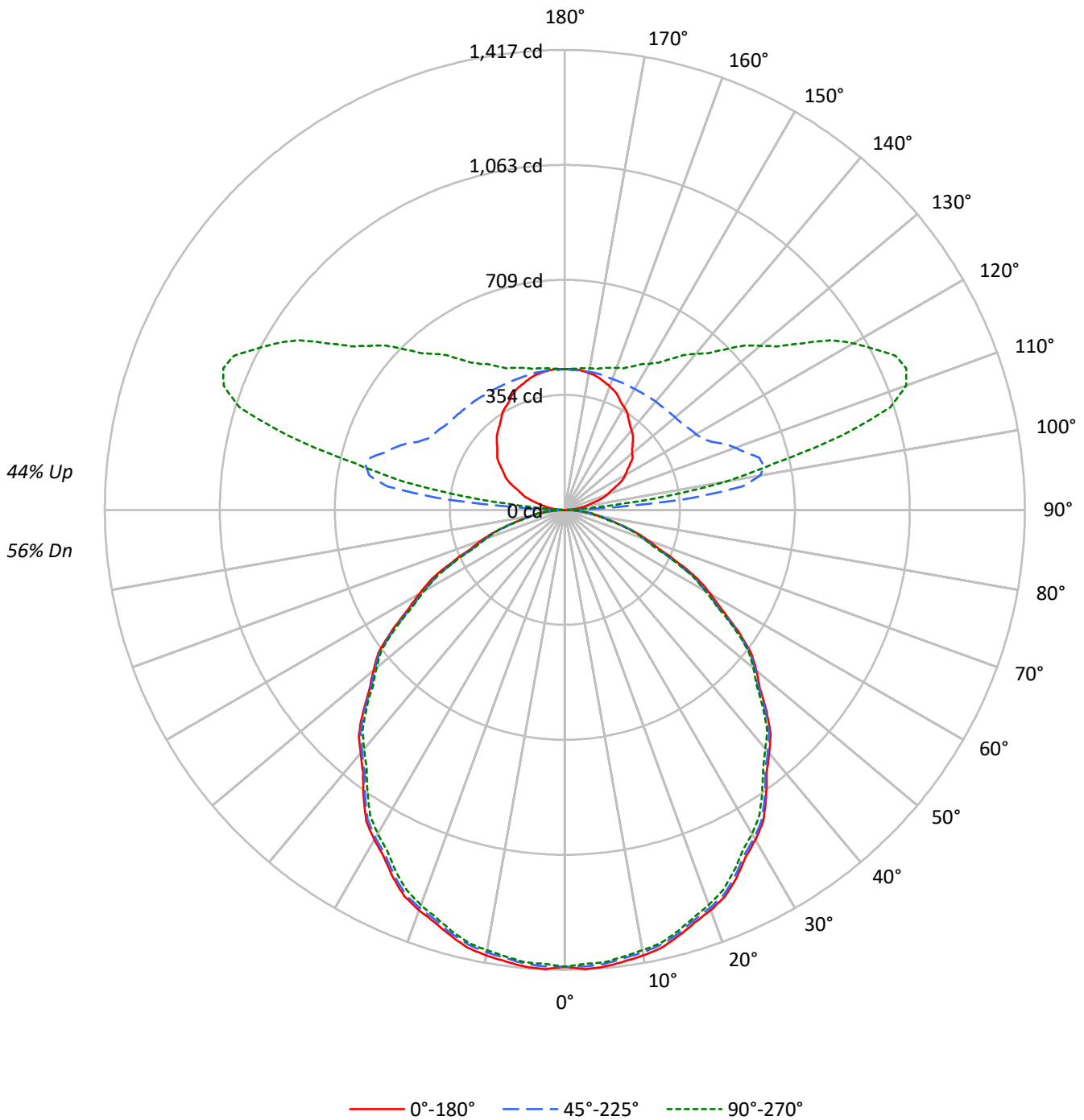
Lumens per Lamp: N/A
Luminaire Lumens: 6430.2 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12989	12989	12989
5°	13085	13004	12959
10°	13063	12970	12912
15°	12976	12905	12835
20°	12889	12817	12721
25°	12736	12649	12523
30°	12501	12435	12277
35°	12174	12091	11938
40°	11785	11710	11577
45°	11463	11382	11269
50°	11051	10980	10874
55°	10480	10340	10261
60°	9540	9267	9221
65°	8405	8053	8027
70°	7256	6957	6957
75°	6245	6156	6071
80°	5504	5574	5441
85°	4308	4700	4700



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	2.1
10°-20°	380.1	5.9
20°-30°	569.4	8.9
30°-40°	667.8	10.4
40°-50°	669.9	10.4
50°-60°	571.5	8.9
60°-70°	372.7	5.8
70°-80°	187.0	2.9
80°-90°	52.8	0.8
90°-100°	204.6	3.2
100°-110°	562.9	8.8
110°-120°	581.0	9.0
120°-130°	465.5	7.2
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°	1082.6	16.8
0°-40°	1750.4	27.2
0°-60°	2991.8	46.5
0°-90°	3604.4	56.1
90°-120°	1348.4	21.0
90°-150°	2459.7	38.3
90°-180°	2826.0	43.9
0°-180°	6430.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1413	1400	1404	1399	1399	134
15°	1358	1345	1351	1346	1344	383
25°	1251	1237	1242	1231	1230	575
35°	1081	1070	1074	1061	1060	675
45°	878	872	872	864	864	676
55°	652	649	643	639	638	579
65°	385	378	369	366	368	384
75°	175	175	173	172	170	190
85°	41	44	44	44	44	48
90°	1	4	6	8	8	3
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°	1407.8	1407.8	1407.8	1407.8	1407.8
2.5°	1416.7	1405.1	1407.8	1405.7	1400.0
5°	1412.8	1399.5	1404.1	1399.2	1399.2
7.5°	1403.2	1388.7	1393.3	1388.3	1388.1
10°	1394.3	1379.8	1384.4	1379.4	1378.2
12.5°	1381.4	1367.0	1372.6	1366.6	1366.4
15°	1358.5	1345.2	1351.1	1346.1	1343.7
17.5°	1332.6	1318.1	1325.2	1318.2	1317.3
20°	1312.8	1298.4	1305.4	1295.6	1295.6
22.5°	1289.1	1274.7	1282.7	1269.9	1269.9
25°	1251.1	1236.7	1242.5	1231.4	1230.2
27.5°	1206.0	1191.7	1197.8	1185.3	1185.0
30°	1173.4	1160.1	1167.2	1153.6	1152.4
32.5°	1137.9	1125.6	1130.7	1117.1	1115.9
35°	1080.9	1070.0	1073.5	1061.1	1059.9
37.5°	1020.9	1009.8	1013.7	1003.1	1002.6
40°	978.5	971.2	972.3	963.6	961.2
42.5°	939.0	930.8	931.8	923.2	922.7
45°	878.5	872.5	872.3	863.7	863.7
47.5°	814.4	809.8	808.4	801.3	801.0
50°	769.9	766.3	765.0	758.8	757.6
52.5°	723.5	721.9	717.6	712.4	712.2
55°	651.5	649.1	642.8	639.1	637.9
57.5°	573.3	568.4	561.4	556.0	557.0
60°	517.0	512.2	502.2	499.7	499.7
62.5°	462.7	456.9	446.9	443.5	445.4
65°	385.0	377.7	368.9	366.5	367.7
67.5°	314.4	307.9	298.4	298.3	297.4
70°	269.0	265.4	257.9	257.9	257.9
72.5°	228.5	226.8	221.4	221.3	220.4
75°	175.2	175.2	172.7	171.5	170.3
77.5°	131.3	131.8	130.5	129.3	127.1
80°	103.6	106.1	104.9	103.6	102.4
82.5°	78.0	80.4	80.2	78.0	77.7
85°	40.7	44.3	44.4	44.4	44.4
87.5°	11.0	15.4	17.1	17.5	18.4
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)