

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: P562796

Luminaire Tested: **SQ4-PC3-0U-050D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562796
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-0U-050D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

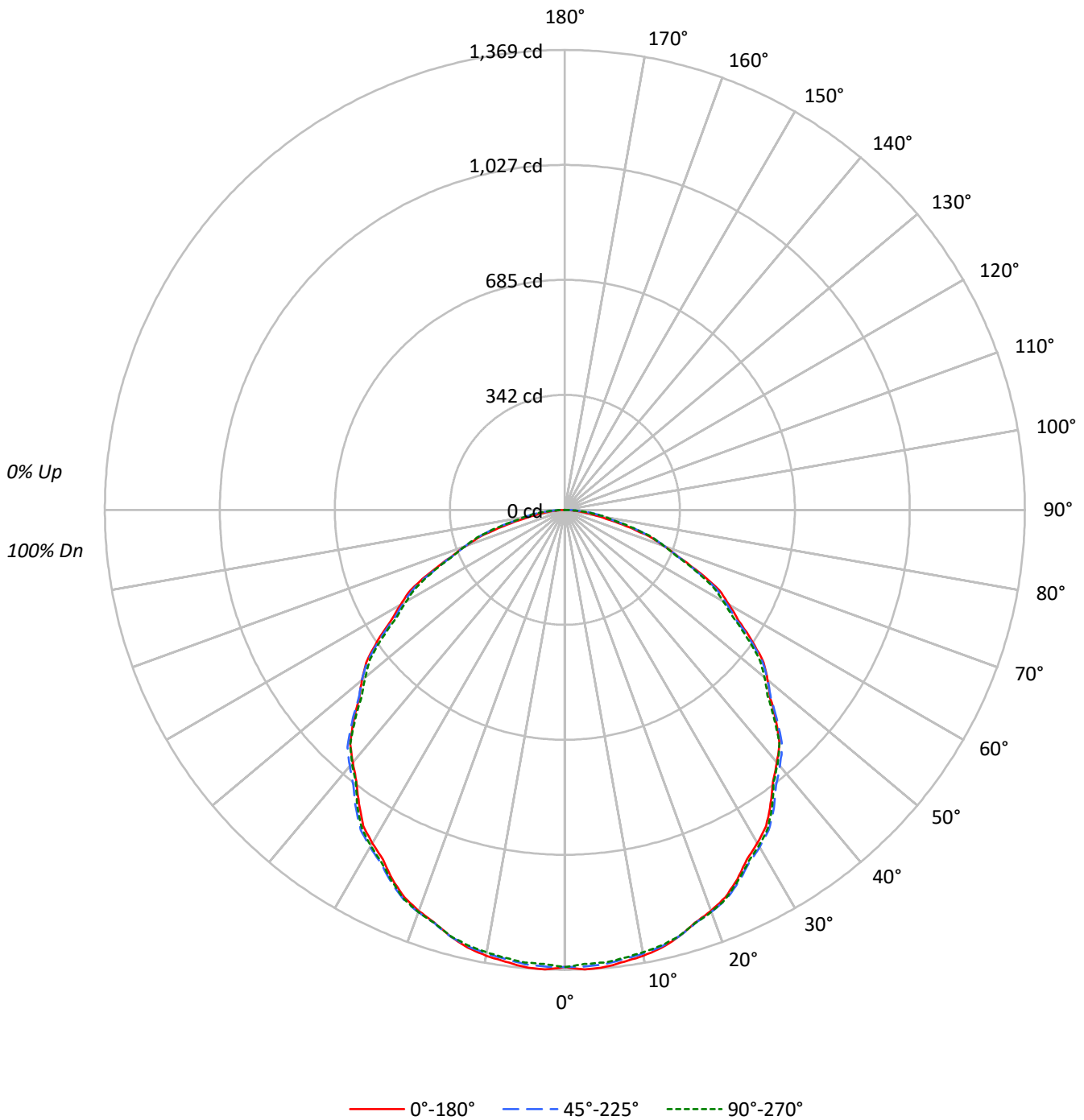
Lumens per Lamp: N/A
Luminaire Lumens: 3715.1 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85				85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71				71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60				60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51				51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44				44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39				39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34				34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31				31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28				28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6279	6279	6279
5°	6327	6286	6263
10°	6312	6282	6264
15°	6278	6278	6272
20°	6237	6256	6256
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6105	6062
40°	5913	5996	5935
45°	5805	5847	5756
50°	5654	5654	5563
55°	5474	5403	5322
60°	5210	5105	5024
65°	4815	4719	4677
70°	4216	4250	4232
75°	3392	3752	3773
80°	2410	3180	3214
85°	1466	2668	2668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	3.5
10°-20°	369.7	10.0
20°-30°	559.9	15.1
30°-40°	671.2	18.1
40°-50°	684.4	18.4
50°-60°	597.4	16.1
60°-70°	427.7	11.5
70°-80°	220.3	5.9
80°-90°	55.7	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1058.4	28.5
0°-40°	1729.6	46.6
0°-60°	3011.4	81.1
0°-90°	3715.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3715.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1366	1353	1358	1354	1352	130
15°	1315	1304	1315	1315	1313	371
25°	1214	1205	1223	1219	1219	559
35°	1068	1065	1084	1076	1076	668
45°	890	887	896	885	882	685
55°	681	672	672	662	662	607
65°	441	431	432	428	428	436
75°	190	199	210	212	212	206
85°	28	42	50	52	50	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.2	1361.2	1361.2	1361.2	1361.2
2.5°	1369.3	1357.5	1361.2	1358.1	1353.2
5°	1366.3	1352.7	1357.5	1353.7	1352.4
7.5°	1356.5	1342.9	1349.1	1346.6	1345.4
10°	1347.4	1333.8	1341.1	1338.5	1337.3
12.5°	1335.3	1322.7	1331.0	1328.5	1328.2
15°	1314.6	1303.5	1314.6	1314.6	1313.3
17.5°	1288.6	1278.5	1290.4	1291.1	1290.4
20°	1270.5	1259.4	1274.3	1273.0	1274.3
22.5°	1248.3	1239.2	1255.1	1251.9	1253.1
25°	1213.8	1205.1	1222.6	1218.8	1218.8
27.5°	1172.9	1166.8	1185.8	1181.8	1181.8
30°	1145.7	1139.6	1159.6	1154.5	1154.5
32.5°	1115.5	1111.3	1130.3	1124.3	1124.3
35°	1067.6	1065.1	1084.0	1076.4	1076.4
37.5°	1018.2	1015.9	1033.0	1023.9	1020.9
40°	981.9	980.6	995.7	985.6	985.6
42.5°	945.6	944.3	957.4	945.3	945.3
45°	889.8	887.4	896.2	884.8	882.3
47.5°	829.1	826.6	832.1	819.7	818.5
50°	787.8	785.3	787.8	776.4	775.2
52.5°	745.4	741.0	741.4	730.0	729.8
55°	680.6	672.0	671.8	661.7	661.7
57.5°	612.1	600.7	601.7	593.1	591.9
60°	564.7	552.3	553.3	545.7	544.5
62.5°	518.3	504.0	506.9	498.4	498.1
65°	441.1	431.3	432.3	428.5	428.5
67.5°	367.0	357.9	364.5	361.5	361.2
70°	312.6	306.4	315.1	315.1	313.8
72.5°	262.2	261.9	272.8	272.8	273.5
75°	190.3	198.9	210.5	211.7	211.7
77.5°	127.0	142.3	155.0	155.5	155.3
80°	90.7	108.0	119.7	122.2	121.0
82.5°	61.5	79.7	89.5	92.0	90.7
85°	27.7	42.5	50.4	51.6	50.4
87.5°	8.1	16.9	20.2	20.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)