

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: P562839

Luminaire Tested: **SQ4-PC3-0U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562839
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-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

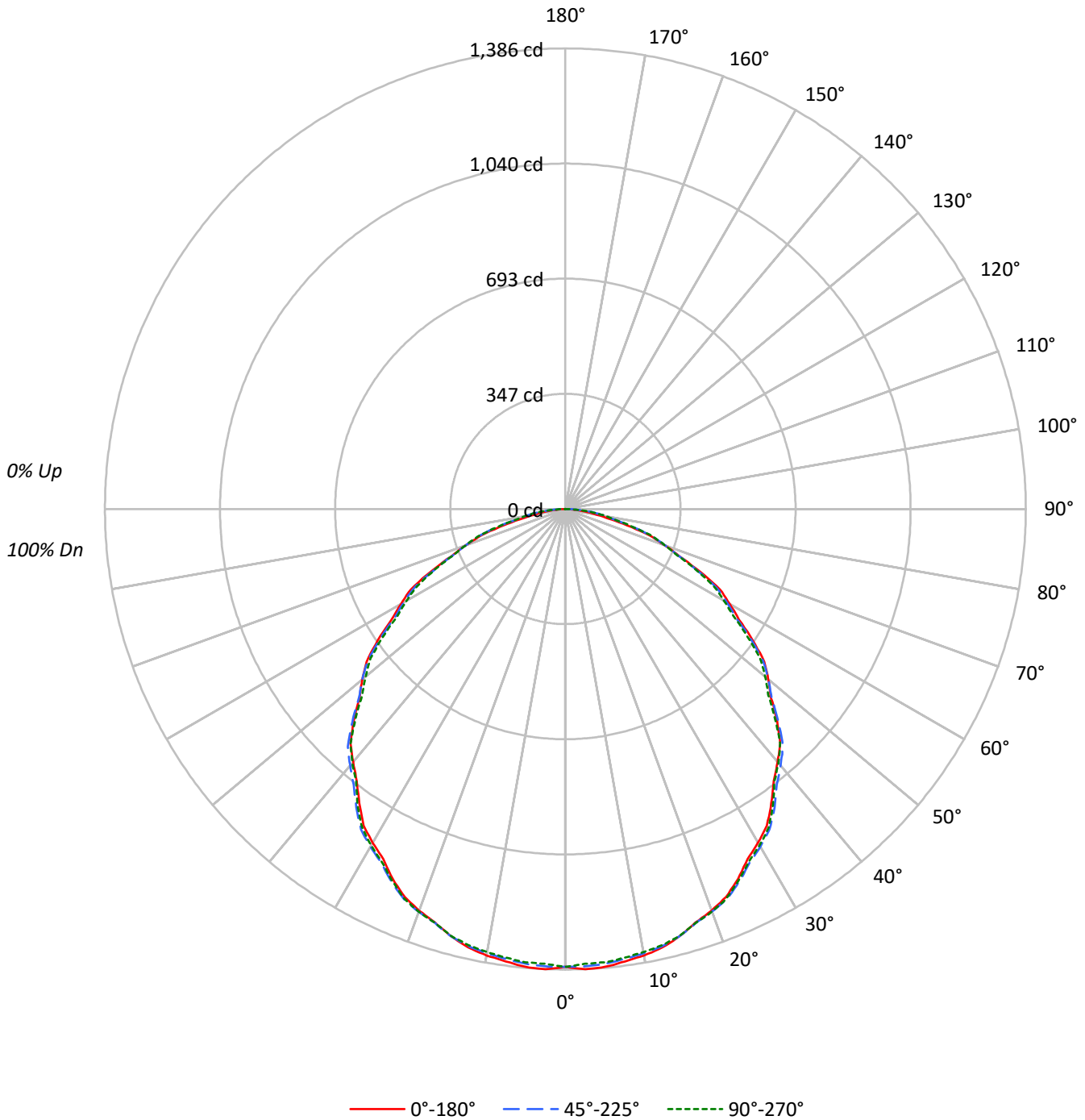
Lumens per Lamp: N/A
Luminaire Lumens: 3761.2 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	8476	8476	8476
5°	8540	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8420	8444	8444
25°	8339	8401	8374
30°	8238	8338	8302
35°	8115	8240	8183
40°	7981	8094	8012
45°	7837	7892	7770
50°	7631	7631	7510
55°	7390	7293	7184
60°	7033	6891	6782
65°	6500	6370	6315
70°	5692	5737	5713
75°	4579	5064	5095
80°	3255	4293	4339
85°	1983	3599	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	3.5
10°-20°	374.3	10.0
20°-30°	566.8	15.1
30°-40°	679.5	18.1
40°-50°	692.9	18.4
50°-60°	604.8	16.1
60°-70°	433.0	11.5
70°-80°	223.0	5.9
80°-90°	56.4	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°	1071.5	28.5
0°-40°	1751.0	46.6
0°-60°	3048.8	81.1
0°-90°	3761.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3761.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1383	1370	1374	1370	1369	131
15°	1331	1320	1331	1331	1330	375
25°	1229	1220	1238	1234	1234	566
35°	1081	1078	1097	1090	1090	676
45°	901	898	907	896	893	693
55°	689	680	680	670	670	614
65°	447	437	438	434	434	442
75°	193	201	213	214	214	208
85°	28	43	51	52	51	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.1	1378.1	1378.1	1378.1	1378.1
2.5°	1386.3	1374.3	1378.1	1375.0	1370.0
5°	1383.2	1369.5	1374.3	1370.5	1369.2
7.5°	1373.3	1359.6	1365.9	1363.3	1362.1
10°	1364.1	1350.4	1357.7	1355.1	1353.9
12.5°	1351.9	1339.1	1347.5	1345.0	1344.7
15°	1330.9	1319.7	1330.9	1330.9	1329.6
17.5°	1304.6	1294.4	1306.4	1307.2	1306.4
20°	1286.3	1275.0	1290.1	1288.8	1290.1
22.5°	1263.8	1254.6	1270.7	1267.4	1268.7
25°	1228.8	1220.1	1237.8	1233.9	1233.9
27.5°	1187.5	1181.3	1200.5	1196.4	1196.4
30°	1159.9	1153.7	1174.0	1168.9	1168.9
32.5°	1129.3	1125.1	1144.4	1138.2	1138.2
35°	1080.8	1078.3	1097.4	1089.8	1089.8
37.5°	1030.8	1028.6	1045.9	1036.6	1033.6
40°	994.0	992.8	1008.1	997.9	997.9
42.5°	957.3	956.0	969.3	957.0	957.0
45°	900.9	898.4	907.3	895.7	893.2
47.5°	839.4	836.9	842.5	829.9	828.7
50°	797.5	795.0	797.5	786.0	784.8
52.5°	754.7	750.2	750.6	739.1	738.8
55°	689.1	680.3	680.1	669.9	669.9
57.5°	619.7	608.2	609.2	600.5	599.2
60°	571.7	559.2	560.2	552.5	551.3
62.5°	524.7	510.2	513.2	504.5	504.3
65°	446.6	436.6	437.7	433.9	433.9
67.5°	371.6	362.4	369.0	366.0	365.7
70°	316.5	310.2	319.0	319.0	317.7
72.5°	265.4	265.2	276.1	276.2	276.9
75°	192.7	201.4	213.1	214.4	214.4
77.5°	128.6	144.1	157.0	157.5	157.2
80°	91.9	109.3	121.2	123.7	122.5
82.5°	62.3	80.7	90.6	93.1	91.9
85°	28.1	43.0	51.0	52.3	51.0
87.5°	8.2	17.2	20.4	20.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)