

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: P561596

Luminaire Tested: **SQ4-PC3-0U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561596
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-100D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3898.5 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

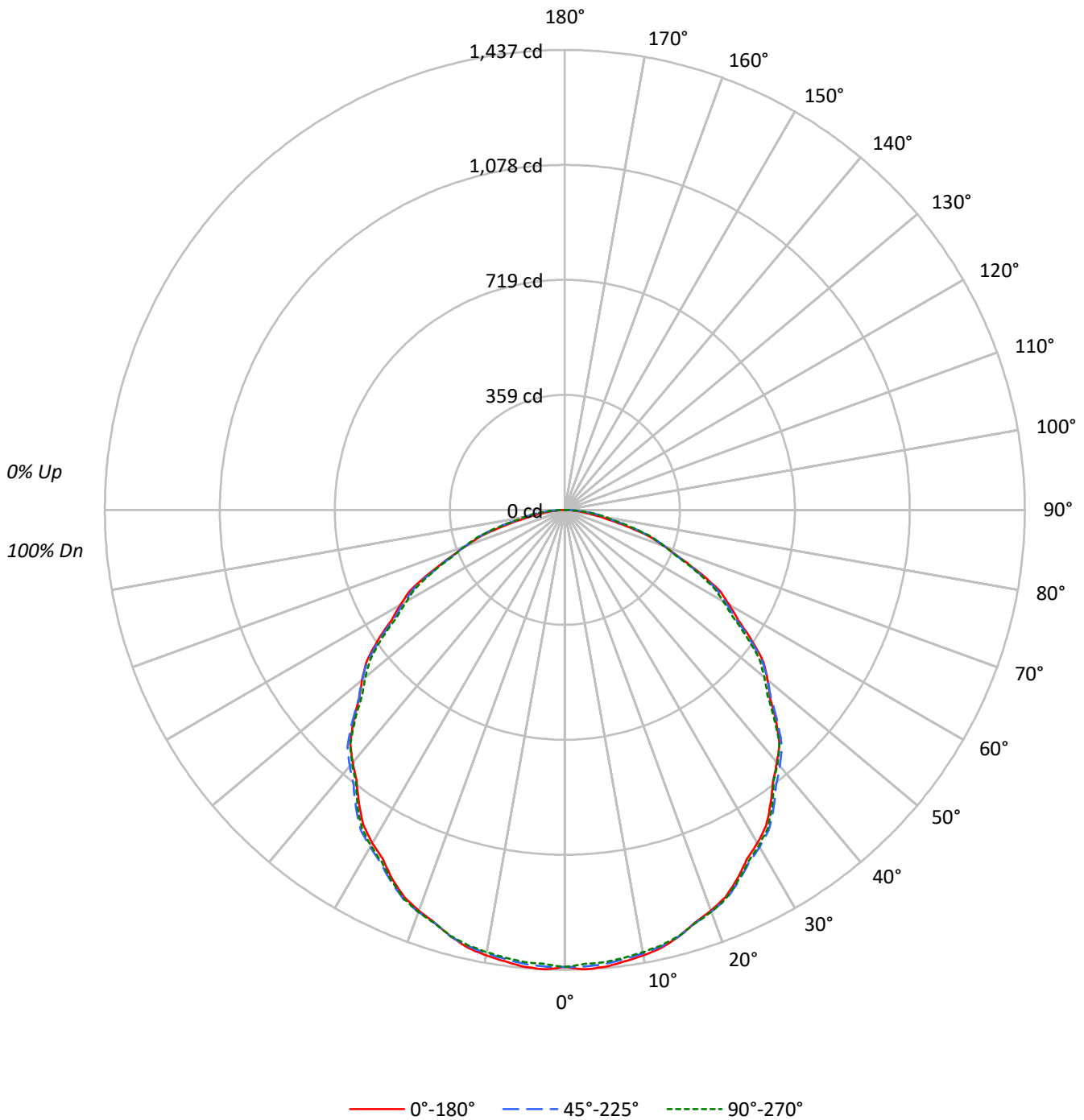
Input Watts (W): 42.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13179	13179	13179
5°	13278	13193	13144
10°	13246	13184	13147
15°	13177	13177	13164
20°	13090	13129	13129
25°	12966	13060	13020
30°	12809	12963	12907
35°	12618	12811	12722
40°	12409	12585	12457
45°	12184	12270	12080
50°	11865	11865	11675
55°	11488	11340	11170
60°	10933	10713	10544
65°	10106	9905	9817
70°	8848	8921	8883
75°	7119	7874	7921
80°	5058	6673	6748
85°	3080	5600	5600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	3.5
10°-20°	387.9	10.0
20°-30°	587.5	15.1
30°-40°	704.3	18.1
40°-50°	718.2	18.4
50°-60°	626.9	16.1
60°-70°	448.8	11.5
70°-80°	231.2	5.9
80°-90°	58.5	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°	1110.6	28.5
0°-40°	1814.9	46.6
0°-60°	3160.0	81.1
0°-90°	3898.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3898.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1434	1420	1424	1420	1419	136
15°	1380	1368	1380	1380	1378	389
25°	1274	1265	1283	1279	1279	586
35°	1120	1118	1137	1130	1130	701
45°	934	931	940	928	926	719
55°	714	705	705	694	694	637
65°	463	453	454	450	450	458
75°	200	209	221	222	222	216
85°	29	45	53	54	53	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1428.4	1428.4	1428.4	1428.4	1428.4
2.5°	1436.9	1424.5	1428.4	1425.1	1420.0
5°	1433.7	1419.5	1424.5	1420.5	1419.2
7.5°	1423.4	1409.2	1415.7	1413.1	1411.8
10°	1413.9	1399.7	1407.3	1404.6	1403.3
12.5°	1401.2	1388.0	1396.7	1394.0	1393.8
15°	1379.5	1367.8	1379.5	1379.5	1378.2
17.5°	1352.2	1341.6	1354.1	1354.9	1354.1
20°	1333.2	1321.6	1337.2	1335.9	1337.2
22.5°	1309.9	1300.3	1317.1	1313.7	1314.9
25°	1273.7	1264.6	1282.9	1279.0	1279.0
27.5°	1230.8	1224.4	1244.3	1240.1	1240.1
30°	1202.3	1195.8	1216.8	1211.5	1211.5
32.5°	1170.5	1166.1	1186.1	1179.8	1179.8
35°	1120.3	1117.7	1137.4	1129.5	1129.5
37.5°	1068.4	1066.1	1084.0	1074.4	1071.3
40°	1030.3	1029.0	1044.9	1034.3	1034.3
42.5°	992.2	990.9	1004.7	992.0	992.0
45°	933.8	931.2	940.4	928.4	925.8
47.5°	870.0	867.4	873.2	860.2	858.9
50°	826.6	824.0	826.6	814.7	813.4
52.5°	782.2	777.5	778.0	766.1	765.8
55°	714.2	705.2	705.0	694.4	694.4
57.5°	642.3	630.4	631.4	622.4	621.1
60°	592.5	579.6	580.6	572.7	571.4
62.5°	543.9	528.9	532.0	523.0	522.7
65°	462.9	452.6	453.7	449.7	449.7
67.5°	385.1	375.6	382.5	379.3	379.1
70°	328.0	321.5	330.7	330.6	329.3
72.5°	275.1	274.8	286.2	286.2	287.0
75°	199.7	208.8	220.9	222.2	222.2
77.5°	133.3	149.4	162.7	163.2	162.9
80°	95.2	113.3	125.6	128.3	127.0
82.5°	64.5	83.7	93.9	96.5	95.2
85°	29.1	44.6	52.9	54.2	52.9
87.5°	8.5	17.8	21.2	21.1	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)