

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: P561585

Luminaire Tested: **SQ4-PC3-0U-075D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561585
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-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

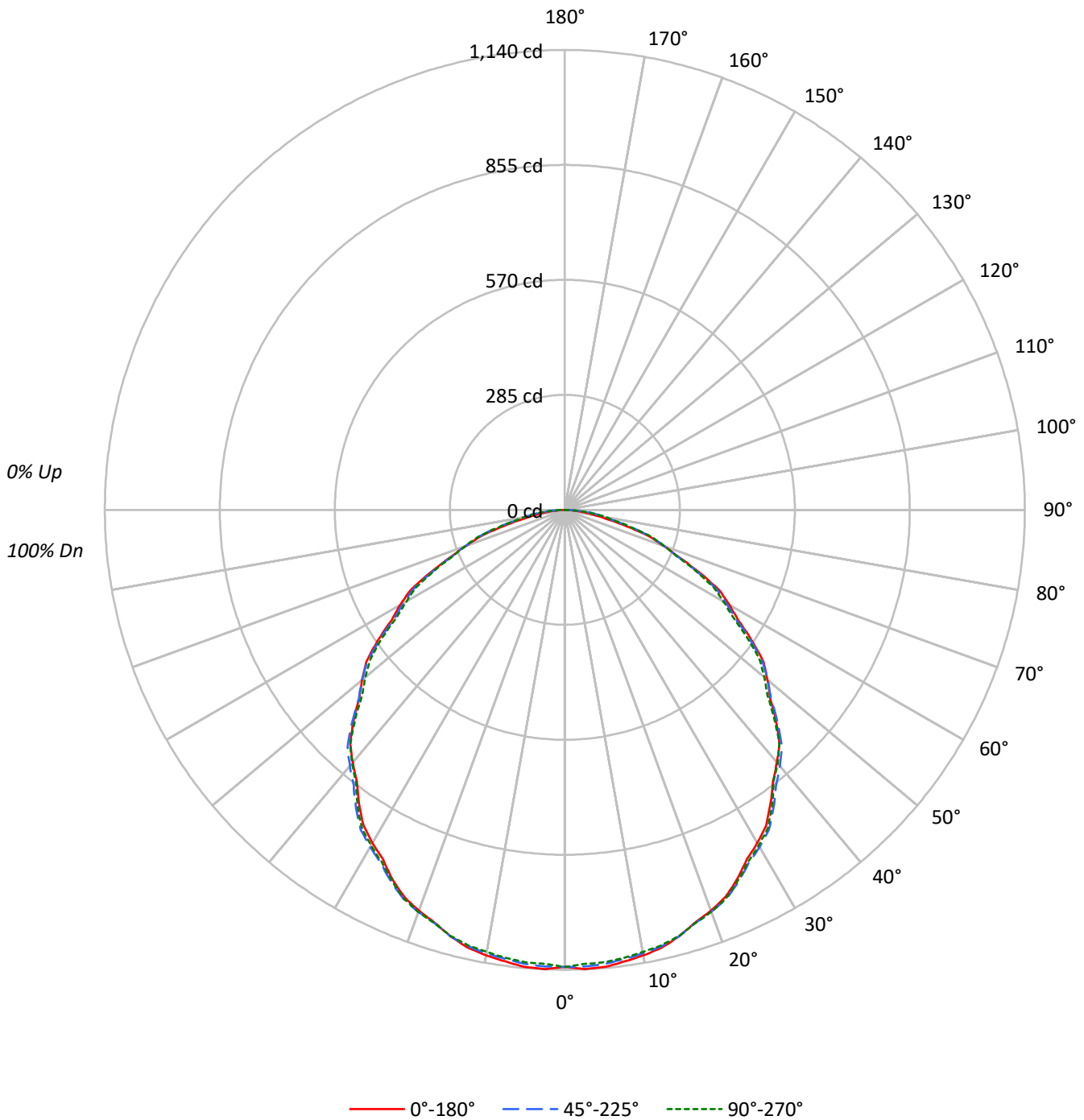
Lumens per Lamp: N/A
Luminaire Lumens: 3092.3 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.9
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°	10453	10453	10453
5°	10532	10465	10426
10°	10507	10458	10428
15°	10451	10451	10442
20°	10383	10414	10414
25°	10285	10359	10328
30°	10159	10283	10238
35°	10008	10162	10091
40°	9844	9982	9881
45°	9665	9732	9582
50°	9412	9412	9261
55°	9112	8995	8860
60°	8673	8499	8363
65°	8016	7855	7787
70°	7019	7076	7046
75°	5647	6245	6285
80°	4011	5297	5350
85°	2445	4446	4446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	3.5
10°-20°	307.7	10.0
20°-30°	466.0	15.1
30°-40°	558.7	18.1
40°-50°	569.6	18.4
50°-60°	497.3	16.1
60°-70°	356.0	11.5
70°-80°	183.4	5.9
80°-90°	46.4	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°	880.9	28.5
0°-40°	1439.6	46.6
0°-60°	2506.5	81.1
0°-90°	3092.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3092.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1137	1126	1130	1127	1126	108
15°	1094	1085	1094	1094	1093	309
25°	1010	1003	1018	1014	1014	465
35°	889	886	902	896	896	556
45°	741	739	746	736	734	570
55°	566	559	559	551	551	505
65°	367	359	360	357	357	363
75°	158	166	175	176	176	171
85°	23	35	42	43	42	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1133.0	1133.0	1133.0	1133.0	1133.0
2.5°	1139.8	1129.9	1133.0	1130.4	1126.3
5°	1137.2	1126.0	1129.9	1126.7	1125.7
7.5°	1129.1	1117.8	1123.0	1120.8	1119.8
10°	1121.5	1110.2	1116.3	1114.1	1113.1
12.5°	1111.4	1101.0	1107.9	1105.8	1105.6
15°	1094.2	1085.0	1094.2	1094.2	1093.2
17.5°	1072.6	1064.2	1074.1	1074.7	1074.1
20°	1057.5	1048.3	1060.7	1059.6	1060.7
22.5°	1039.0	1031.4	1044.7	1042.0	1043.0
25°	1010.3	1003.1	1017.6	1014.5	1014.5
27.5°	976.3	971.2	987.0	983.6	983.6
30°	953.6	948.5	965.2	961.0	961.0
32.5°	928.5	925.0	940.8	935.8	935.8
35°	888.6	886.5	902.2	895.9	895.9
37.5°	847.5	845.6	859.9	852.2	849.8
40°	817.3	816.2	828.8	820.4	820.4
42.5°	787.0	786.0	796.9	786.8	786.8
45°	740.7	738.6	745.9	736.4	734.4
47.5°	690.1	688.1	692.6	682.3	681.3
50°	655.7	653.6	655.7	646.2	645.2
52.5°	620.4	616.8	617.1	607.6	607.4
55°	566.5	559.3	559.2	550.8	550.8
57.5°	509.4	500.0	500.8	493.7	492.7
60°	470.0	459.7	460.6	454.2	453.2
62.5°	431.4	419.5	422.0	414.8	414.6
65°	367.2	359.0	359.8	356.7	356.7
67.5°	305.5	297.9	303.4	300.9	300.7
70°	260.2	255.1	262.3	262.3	261.2
72.5°	218.2	218.0	227.0	227.0	227.7
75°	158.4	165.6	175.2	176.3	176.3
77.5°	105.8	118.5	129.0	129.5	129.3
80°	75.5	89.9	99.7	101.7	100.7
82.5°	51.2	66.4	74.5	76.6	75.5
85°	23.1	35.4	42.0	43.0	42.0
87.5°	6.7	14.1	16.8	16.7	15.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)