

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: P561586

Luminaire Tested: **SQ4-PC3-0U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561586
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3142.2 lumens
Efficiency: N/A
Efficacy: 98.5 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

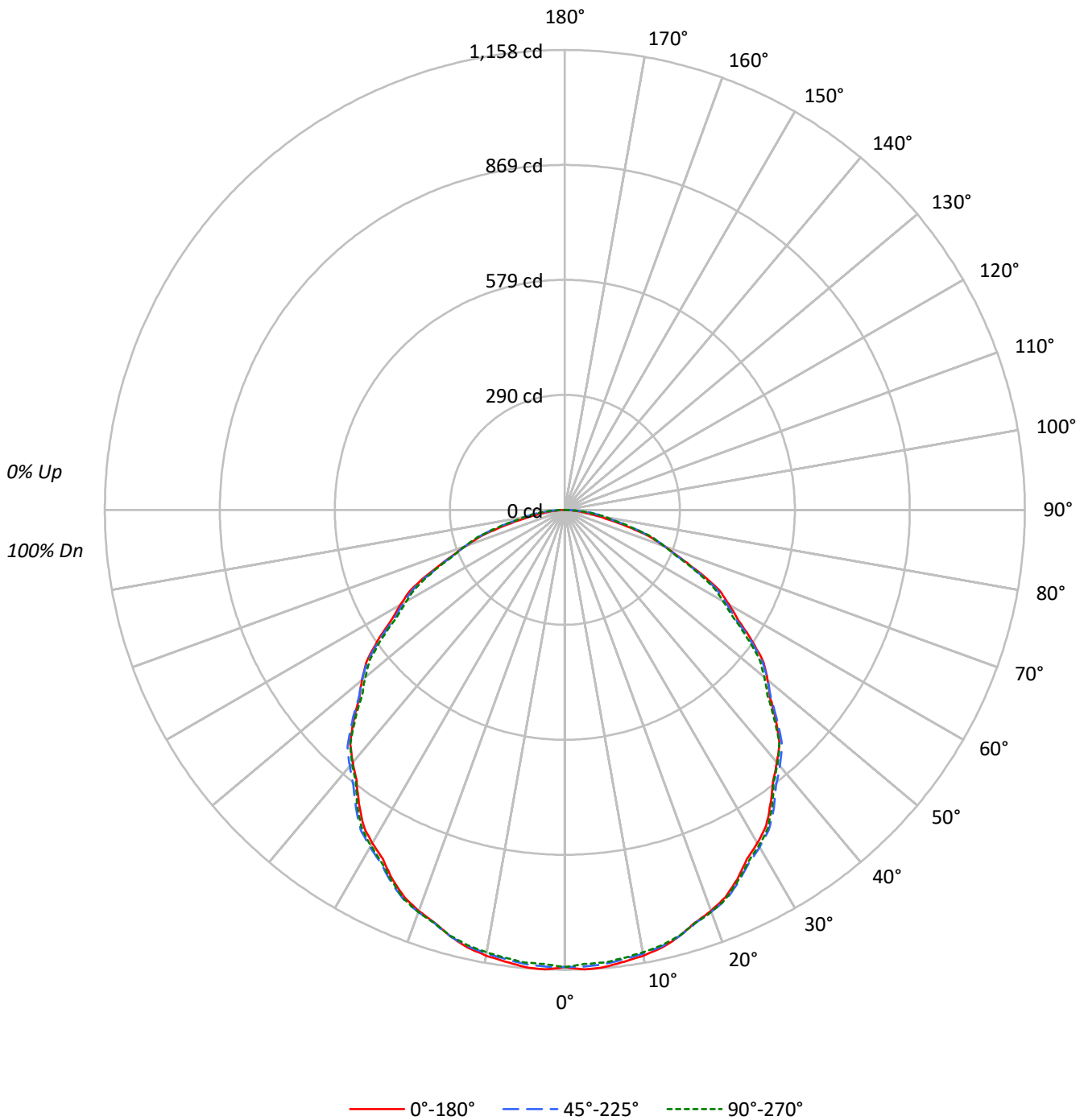
Input Watts (W): 31.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	10622	10622	10622
5°	10703	10633	10594
10°	10676	10627	10597
15°	10620	10620	10610
20°	10551	10582	10582
25°	10451	10527	10495
30°	10323	10449	10403
35°	10169	10326	10254
40°	10001	10143	10040
45°	9820	9890	9736
50°	9564	9564	9410
55°	9260	9140	9003
60°	8813	8636	8497
65°	8145	7981	7914
70°	7132	7189	7159
75°	5739	6345	6384
80°	4081	5382	5435
85°	2488	4510	4510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	3.5
10°-20°	312.7	10.0
20°-30°	473.5	15.1
30°-40°	567.7	18.1
40°-50°	578.8	18.4
50°-60°	505.3	16.1
60°-70°	361.8	11.5
70°-80°	186.3	5.9
80°-90°	47.1	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°	895.2	28.5
0°-40°	1462.9	46.6
0°-60°	2547.0	81.1
0°-90°	3142.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3142.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1156	1144	1148	1145	1144	110
15°	1112	1102	1112	1112	1111	314
25°	1027	1019	1034	1031	1031	472
35°	903	901	917	910	910	565
45°	753	750	758	748	746	579
55°	576	568	568	560	560	513
65°	373	365	366	362	362	369
75°	161	168	178	179	179	174
85°	24	36	43	44	43	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.3	1151.3	1151.3	1151.3	1151.3
2.5°	1158.1	1148.1	1151.3	1148.7	1144.5
5°	1155.6	1144.1	1148.1	1144.9	1143.9
7.5°	1147.3	1135.8	1141.1	1138.9	1137.9
10°	1139.6	1128.1	1134.3	1132.1	1131.1
12.5°	1129.4	1118.7	1125.7	1123.6	1123.4
15°	1111.9	1102.5	1111.9	1111.9	1110.8
17.5°	1089.9	1081.4	1091.4	1092.0	1091.4
20°	1074.6	1065.2	1077.8	1076.7	1077.8
22.5°	1055.8	1048.1	1061.6	1058.8	1059.9
25°	1026.6	1019.3	1034.1	1030.9	1030.9
27.5°	992.1	986.8	1002.9	999.5	999.5
30°	969.0	963.8	980.8	976.5	976.5
32.5°	943.4	939.9	956.0	950.9	950.9
35°	902.9	900.8	916.8	910.4	910.4
37.5°	861.1	859.3	873.7	866.0	863.5
40°	830.4	829.4	842.2	833.6	833.6
42.5°	799.7	798.7	809.8	799.5	799.5
45°	752.6	750.5	758.0	748.3	746.2
47.5°	701.2	699.2	703.8	693.3	692.3
50°	666.3	664.2	666.3	656.7	655.6
52.5°	630.5	626.7	627.0	617.4	617.2
55°	575.7	568.4	568.2	559.7	559.7
57.5°	517.7	508.1	508.9	501.7	500.6
60°	477.6	467.2	468.0	461.6	460.5
62.5°	438.4	426.3	428.8	421.5	421.3
65°	373.1	364.8	365.6	362.5	362.5
67.5°	310.4	302.7	308.3	305.7	305.5
70°	264.4	259.2	266.5	266.5	265.4
72.5°	221.7	221.5	230.7	230.7	231.3
75°	161.0	168.3	178.0	179.1	179.1
77.5°	107.5	120.4	131.1	131.5	131.3
80°	76.8	91.3	101.3	103.4	102.3
82.5°	52.0	67.4	75.7	77.8	76.8
85°	23.5	36.0	42.6	43.7	42.6
87.5°	6.8	14.3	17.1	17.0	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)