

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: P561589

Luminaire Tested: **SQ4-PC3-0U-075D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561589
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3252.8 lumens
Efficiency: N/A
Efficacy: 102.6 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

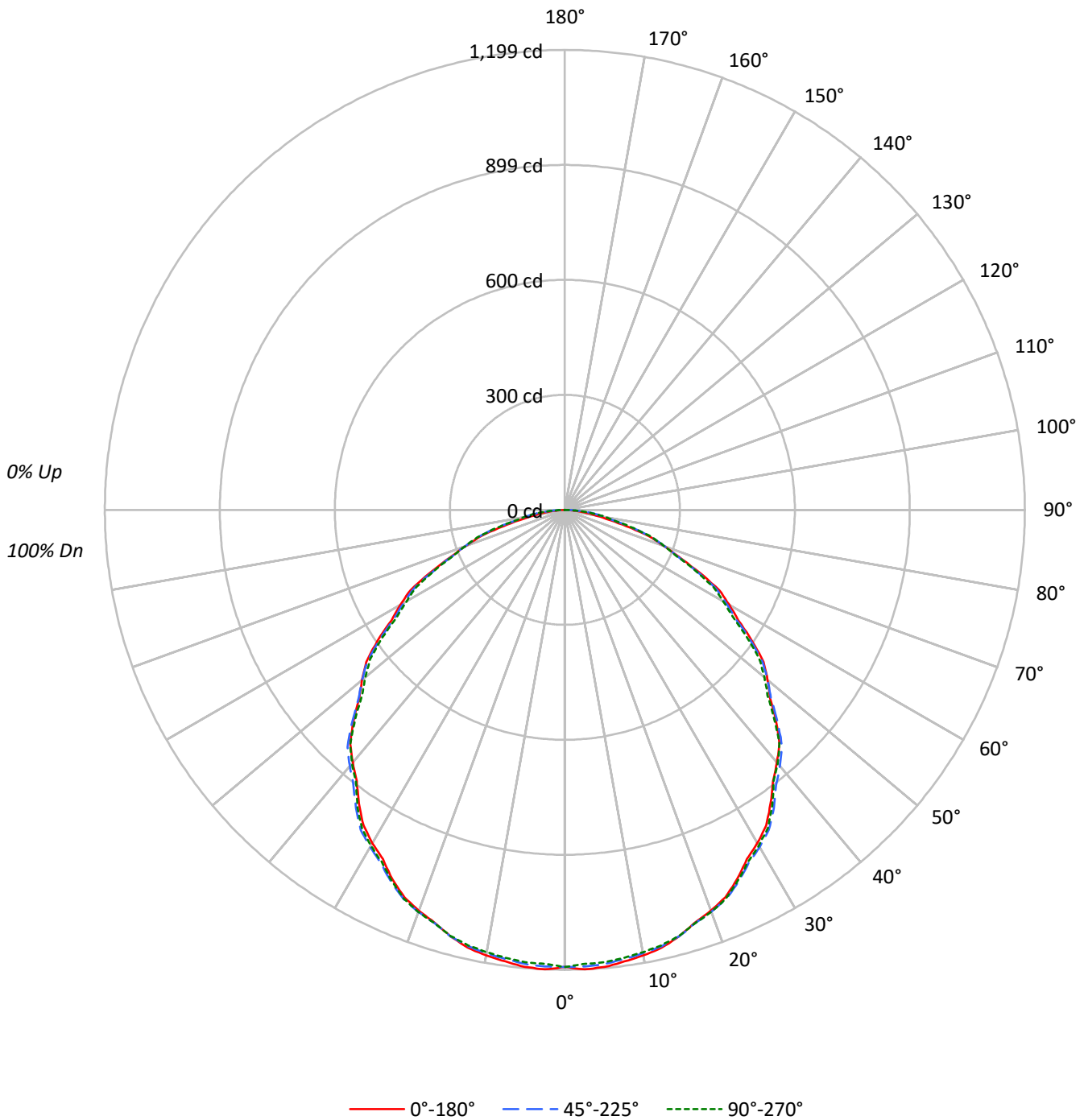
Input Watts (W): 31.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	10996	10996	10996
5°	11079	11007	10966
10°	11052	11001	10970
15°	10994	10994	10983
20°	10922	10954	10954
25°	10818	10897	10863
30°	10687	10816	10769
35°	10528	10690	10614
40°	10354	10500	10394
45°	10166	10237	10079
50°	9900	9900	9742
55°	9585	9461	9320
60°	9123	8940	8796
65°	8431	8263	8191
70°	7383	7443	7413
75°	5939	6570	6609
80°	4224	5568	5627
85°	2572	4668	4668



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	3.5
10°-20°	323.7	10.0
20°-30°	490.2	15.1
30°-40°	587.7	18.1
40°-50°	599.2	18.4
50°-60°	523.1	16.1
60°-70°	374.5	11.5
70°-80°	192.9	5.9
80°-90°	48.8	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°	926.7	28.5
0°-40°	1514.3	46.6
0°-60°	2636.6	81.1
0°-90°	3252.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3252.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1196	1184	1188	1185	1184	114
15°	1151	1141	1151	1151	1150	325
25°	1063	1055	1070	1067	1067	489
35°	935	932	949	942	942	585
45°	779	777	785	775	772	600
55°	596	588	588	579	579	531
65°	386	378	378	375	375	382
75°	167	174	184	185	185	180
85°	24	37	44	45	44	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1191.8	1191.8	1191.8	1191.8	1191.8
2.5°	1198.9	1188.5	1191.8	1189.1	1184.8
5°	1196.2	1184.4	1188.5	1185.2	1184.1
7.5°	1187.6	1175.8	1181.2	1179.0	1177.9
10°	1179.7	1167.8	1174.2	1171.9	1170.9
12.5°	1169.1	1158.1	1165.3	1163.1	1162.9
15°	1151.0	1141.3	1151.0	1151.0	1149.9
17.5°	1128.3	1119.4	1129.8	1130.5	1129.8
20°	1112.4	1102.7	1115.7	1114.6	1115.7
22.5°	1093.0	1085.0	1098.9	1096.1	1097.1
25°	1062.7	1055.2	1070.4	1067.1	1067.1
27.5°	1027.0	1021.6	1038.2	1034.7	1034.7
30°	1003.1	997.7	1015.3	1010.8	1010.8
32.5°	976.6	973.0	989.7	984.4	984.4
35°	934.7	932.5	949.1	942.4	942.4
37.5°	891.4	889.5	904.5	896.5	893.9
40°	859.7	858.6	871.8	863.0	863.0
42.5°	827.9	826.8	838.3	827.7	827.7
45°	779.1	776.9	784.6	774.6	772.5
47.5°	725.9	723.8	728.6	717.7	716.6
50°	689.7	687.6	689.7	679.8	678.7
52.5°	652.6	648.8	649.1	639.2	639.0
55°	595.9	588.4	588.2	579.4	579.4
57.5°	535.9	526.0	526.8	519.3	518.2
60°	494.4	483.6	484.5	477.8	476.7
62.5°	453.8	441.3	443.8	436.3	436.1
65°	386.2	377.6	378.5	375.2	375.2
67.5°	321.4	313.4	319.1	316.5	316.3
70°	273.7	268.3	275.9	275.9	274.8
72.5°	229.5	229.3	238.8	238.8	239.5
75°	166.6	174.2	184.3	185.4	185.4
77.5°	111.2	124.6	135.7	136.2	136.0
80°	79.5	94.6	104.8	107.0	105.9
82.5°	53.9	69.8	78.4	80.5	79.5
85°	24.3	37.2	44.1	45.2	44.1
87.5°	7.1	14.8	17.7	17.6	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)