

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: P562826

Luminaire Tested: **SQ4-PC3-0U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562826
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-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

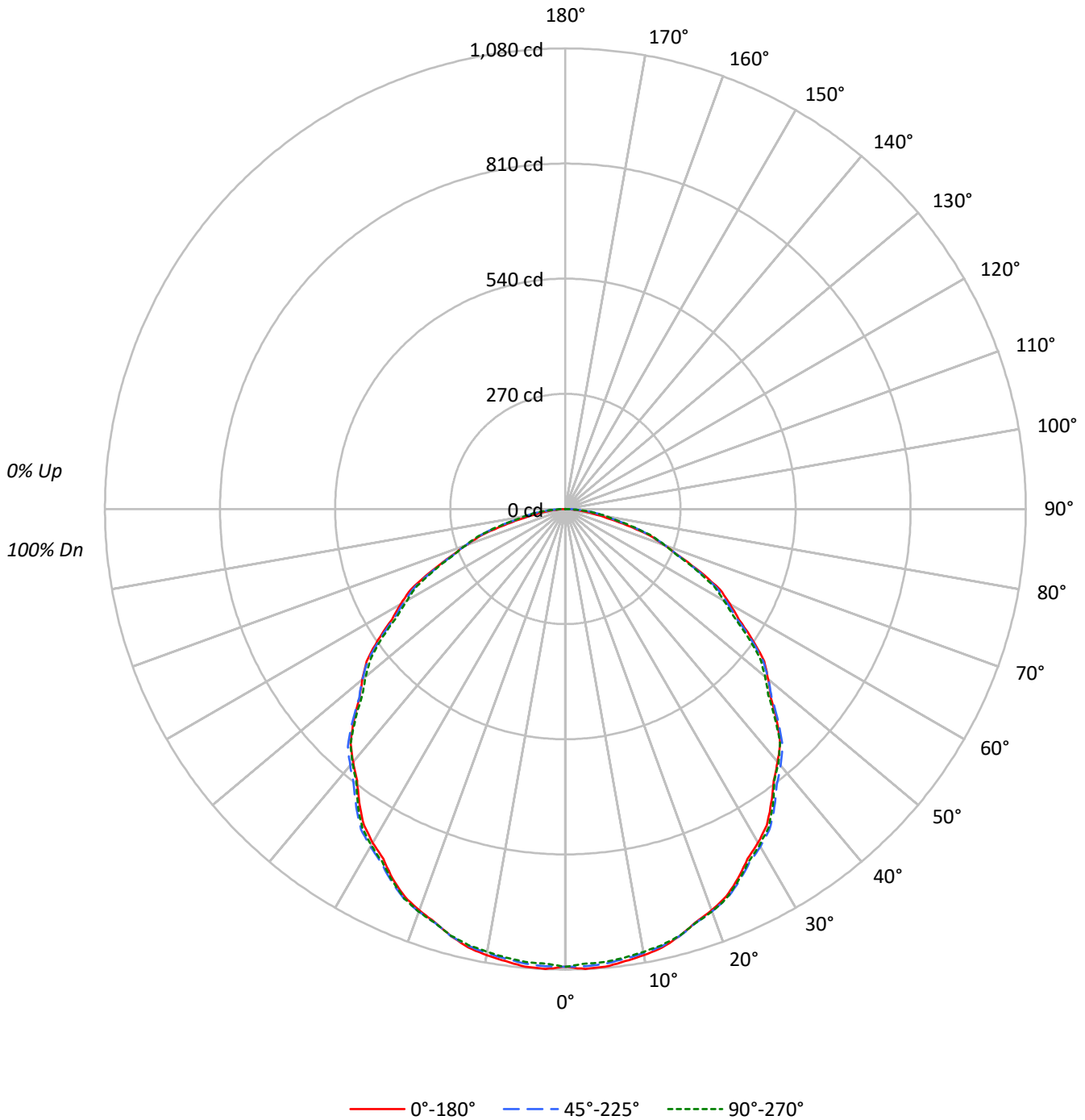
Lumens per Lamp: N/A
Luminaire Lumens: 2929.7 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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°	9904	9904	9904
5°	9979	9914	9877
10°	9954	9908	9880
15°	9902	9902	9893
20°	9837	9866	9866
25°	9744	9815	9785
30°	9625	9742	9700
35°	9482	9628	9560
40°	9326	9457	9362
45°	9156	9221	9079
50°	8916	8916	8774
55°	8633	8522	8393
60°	8217	8053	7923
65°	7595	7442	7377
70°	6649	6703	6676
75°	5351	5917	5953
80°	3804	5016	5069
85°	2318	4213	4213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	3.5
10°-20°	291.5	10.0
20°-30°	441.5	15.1
30°-40°	529.3	18.1
40°-50°	539.7	18.4
50°-60°	471.1	16.1
60°-70°	337.3	11.5
70°-80°	173.7	5.9
80°-90°	43.9	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°	834.6	28.5
0°-40°	1363.9	46.6
0°-60°	2374.8	81.1
0°-90°	2929.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2929.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1078	1067	1070	1068	1066	102
15°	1037	1028	1037	1037	1036	292
25°	957	950	964	961	961	441
35°	842	840	855	849	849	527
45°	702	700	707	698	696	540
55°	537	530	530	522	522	478
65°	348	340	341	338	338	344
75°	150	157	166	167	167	162
85°	22	34	40	41	40	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.5	1073.5	1073.5	1073.5	1073.5
2.5°	1079.8	1070.5	1073.5	1071.0	1067.1
5°	1077.5	1066.8	1070.5	1067.5	1066.5
7.5°	1069.7	1059.0	1063.9	1061.9	1061.0
10°	1062.5	1051.9	1057.6	1055.6	1054.6
12.5°	1053.0	1043.1	1049.6	1047.6	1047.4
15°	1036.7	1028.0	1036.7	1036.7	1035.7
17.5°	1016.2	1008.3	1017.6	1018.2	1017.6
20°	1001.9	993.2	1004.9	1003.9	1004.9
22.5°	984.4	977.2	989.8	987.2	988.2
25°	957.2	950.4	964.1	961.2	961.2
27.5°	925.0	920.1	935.1	931.9	931.9
30°	903.5	898.7	914.4	910.5	910.5
32.5°	879.7	876.4	891.4	886.6	886.6
35°	841.9	839.9	854.8	848.8	848.8
37.5°	802.9	801.2	814.7	807.4	805.1
40°	774.3	773.3	785.2	777.3	777.3
42.5°	745.7	744.7	755.0	745.5	745.5
45°	701.7	699.8	706.7	697.7	695.8
47.5°	653.8	651.9	656.2	646.5	645.5
50°	621.2	619.3	621.2	612.3	611.3
52.5°	587.8	584.3	584.6	575.7	575.5
55°	536.7	529.9	529.8	521.8	521.8
57.5°	482.7	473.7	474.5	467.7	466.8
60°	445.3	435.6	436.4	430.4	429.4
62.5°	408.7	397.4	399.8	393.0	392.8
65°	347.9	340.1	340.9	337.9	337.9
67.5°	289.4	282.3	287.5	285.1	284.9
70°	246.5	241.6	248.5	248.5	247.5
72.5°	206.7	206.6	215.1	215.1	215.7
75°	150.1	156.9	166.0	167.0	167.0
77.5°	100.2	112.2	122.3	122.7	122.5
80°	71.6	85.2	94.4	96.4	95.4
82.5°	48.5	62.9	70.6	72.5	71.6
85°	21.9	33.5	39.8	40.7	39.8
87.5°	6.4	13.4	15.9	15.9	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)