

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: P562812

Luminaire Tested: **SQ4-PC3-0U-050D-935-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562812
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-050D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

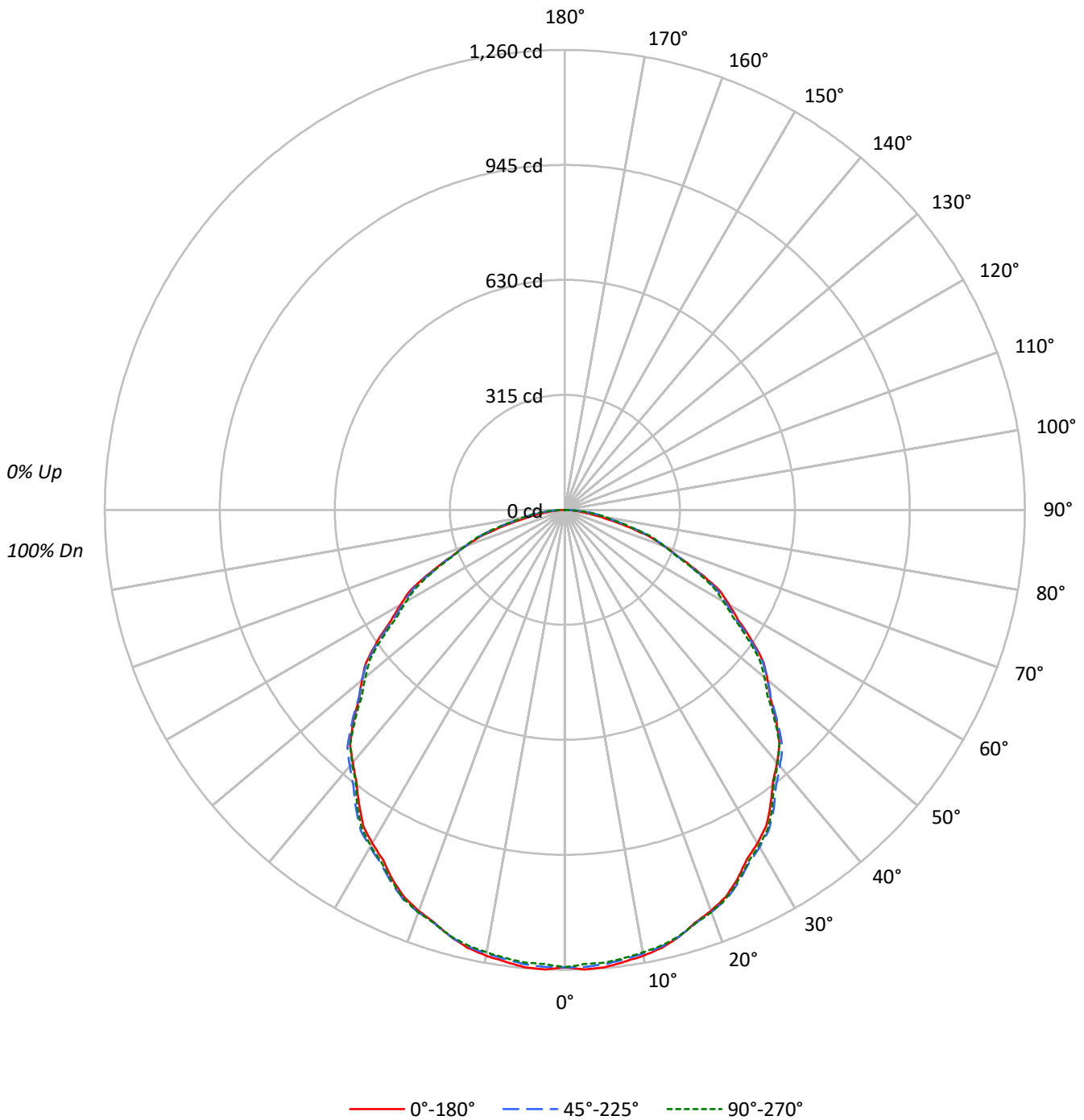
Lumens per Lamp: N/A
Luminaire Lumens: 3419.9 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85			85	
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71			71	
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60			60	
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51			51	
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44			44	
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39			39	
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34			34	
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			31	
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28			28	
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25			25	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5781	5781	5781
5°	5824	5787	5765
10°	5810	5783	5766
15°	5780	5780	5774
20°	5741	5758	5758
25°	5687	5729	5711
30°	5618	5686	5661
35°	5534	5619	5580
40°	5443	5520	5464
45°	5344	5382	5299
50°	5205	5205	5121
55°	5039	4974	4899
60°	4796	4700	4624
65°	4433	4344	4306
70°	3880	3913	3897
75°	3123	3454	3474
80°	2218	2928	2959
85°	1350	2456	2456



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.6	3.5
10°-20°	340.3	10.0
20°-30°	515.4	15.1
30°-40°	617.9	18.1
40°-50°	630.0	18.4
50°-60°	550.0	16.1
60°-70°	393.7	11.5
70°-80°	202.8	5.9
80°-90°	51.3	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°	974.3	28.5
0°-40°	1592.1	46.6
0°-60°	2772.1	81.1
0°-90°	3419.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3419.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1258	1245	1250	1246	1245	119
15°	1210	1200	1210	1210	1209	341
25°	1117	1109	1126	1122	1122	514
35°	983	980	998	991	991	615
45°	819	817	825	814	812	631
55°	626	619	618	609	609	559
65°	406	397	398	394	394	402
75°	175	183	194	195	195	189
85°	26	39	46	48	46	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1253.1	1253.1	1253.1	1253.1	1253.1
2.5°	1260.5	1249.6	1253.1	1250.2	1245.7
5°	1257.7	1245.2	1249.6	1246.1	1245.0
7.5°	1248.7	1236.2	1241.9	1239.6	1238.5
10°	1240.3	1227.8	1234.5	1232.2	1231.0
12.5°	1229.2	1217.6	1225.2	1222.9	1222.7
15°	1210.2	1199.9	1210.2	1210.1	1209.0
17.5°	1186.2	1176.9	1187.9	1188.6	1187.9
20°	1169.5	1159.3	1173.0	1171.9	1173.0
22.5°	1149.1	1140.7	1155.4	1152.4	1153.5
25°	1117.3	1109.4	1125.5	1122.0	1122.0
27.5°	1079.7	1074.1	1091.6	1087.9	1087.9
30°	1054.7	1049.0	1067.4	1062.8	1062.8
32.5°	1026.8	1023.0	1040.5	1035.0	1035.0
35°	982.7	980.5	997.8	990.9	990.9
37.5°	937.3	935.2	950.9	942.5	939.8
40°	903.8	902.7	916.6	907.3	907.3
42.5°	870.4	869.3	881.3	870.2	870.2
45°	819.1	816.9	824.9	814.5	812.2
47.5°	763.2	761.0	766.0	754.6	753.5
50°	725.2	722.9	725.2	714.7	713.6
52.5°	686.2	682.1	682.5	672.0	671.8
55°	626.5	618.6	618.4	609.1	609.1
57.5°	563.4	553.0	553.9	546.0	544.9
60°	519.8	508.5	509.4	502.4	501.2
62.5°	477.1	463.9	466.7	458.8	458.5
65°	406.1	397.0	398.0	394.5	394.5
67.5°	337.9	329.5	335.5	332.8	332.5
70°	287.7	282.1	290.1	290.0	288.9
72.5°	241.3	241.1	251.1	251.1	251.8
75°	175.2	183.1	193.8	194.9	194.9
77.5°	117.0	131.0	142.7	143.2	142.9
80°	83.5	99.4	110.2	112.5	111.4
82.5°	56.6	73.4	82.4	84.7	83.5
85°	25.5	39.1	46.4	47.5	46.4
87.5°	7.4	15.6	18.6	18.5	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)