

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: P562539

Luminaire Tested: **SQ4-PC3-025U-075D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562539
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-075D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

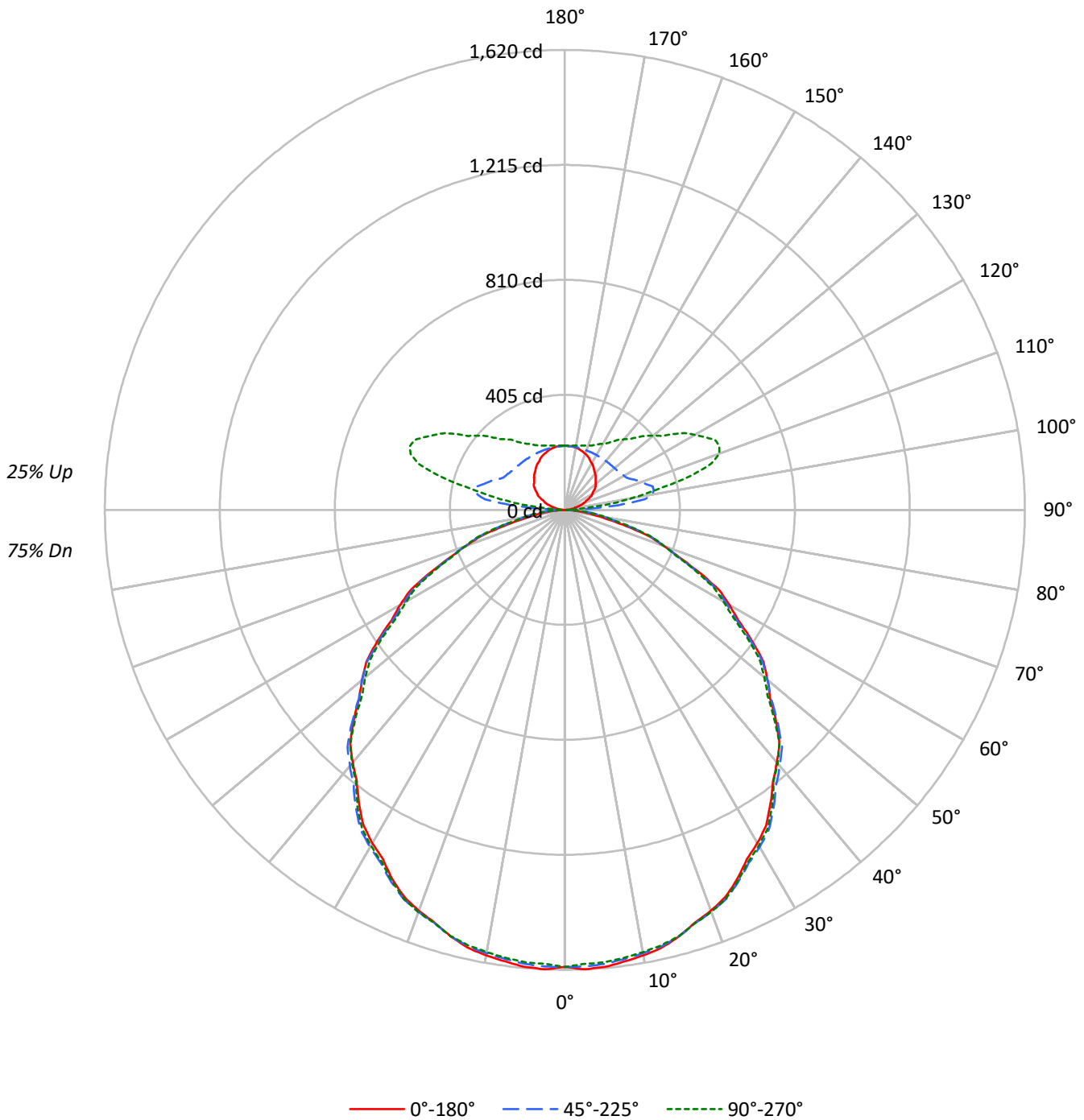
Lumens per Lamp: N/A
Luminaire Lumens: 5859.2 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 48.6
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75				
1	103	99	95	91	98	94	91	88	86	83	80	78	75	73	70	69	67	63				
2	94	87	80	75	89	83	77	72	75	71	67	68	65	61	62	59	57	53				
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45				
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41	38				
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36	33				
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29				
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26				
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25	23				
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	31	26	23	21				
10	50	38	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9904	9904	9904
5°	9979	9914	9878
10°	9954	9908	9880
15°	9903	9903	9893
20°	9837	9866	9866
25°	9744	9815	9784
30°	9626	9742	9700
35°	9482	9628	9561
40°	9325	9457	9361
45°	9156	9221	9079
50°	8916	8916	8774
55°	8634	8522	8393
60°	8216	8051	7923
65°	7594	7443	7377
70°	6650	6703	6676
75°	5349	5917	5953
80°	3801	5016	5069
85°	2315	4206	4206



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	2.6
10°-20°	437.3	7.5
20°-30°	662.3	11.3
30°-40°	794.0	13.6
40°-50°	809.6	13.8
50°-60°	706.7	12.1
60°-70°	505.9	8.6
70°-80°	260.6	4.4
80°-90°	67.1	1.1
90°-100°	110.0	1.9
100°-110°	289.3	4.9
110°-120°	300.0	5.1
120°-130°	240.6	4.1
130°-140°	188.8	3.2
140°-150°	144.9	2.5
150°-160°	104.4	1.8
160°-170°	63.9	1.1
170°-180°	21.6	0.4
0°-30°	1252.0	21.4
0°-40°	2045.9	34.9
0°-60°	3562.2	60.8
0°-90°	4395.8	75.0
90°-120°	699.3	11.9
90°-150°	1273.6	21.7
90°-180°	1463.0	25.0
0°-180°	5859.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1610	1610	1610	1610	1610	
5°	1616	1600	1606	1601	1600	153
15°	1555	1542	1555	1555	1554	438
25°	1436	1426	1446	1442	1442	661
35°	1263	1260	1282	1273	1273	790
45°	1053	1050	1060	1047	1044	810
55°	805	795	795	783	783	718
65°	522	510	511	507	507	516
75°	225	235	249	250	250	243
85°	33	50	60	61	60	45
90°	1	4	12	6	6	3
95°	14	57	190	98	67	16
105°	52	79	320	486	453	55
115°	93	112	256	511	583	91
125°	129	144	233	394	465	114
135°	153	169	226	318	360	119
145°	178	189	223	271	292	112
155°	201	207	223	245	252	92
165°	217	220	223	232	234	61
175°	226	226	224	227	227	21
180°	226	226	226	226	226	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1610.2	1610.2	1610.2	1610.2	1610.2
2.5°	1619.8	1605.8	1610.2	1606.5	1600.7
5°	1616.2	1600.2	1605.7	1601.2	1599.8
7.5°	1604.6	1588.5	1595.9	1592.9	1591.4
10°	1593.8	1577.8	1586.4	1583.4	1581.9
12.5°	1579.5	1564.6	1574.4	1571.5	1571.2
15°	1555.1	1541.9	1555.1	1555.0	1553.6
17.5°	1524.3	1512.4	1526.4	1527.3	1526.4
20°	1502.9	1489.8	1507.3	1505.9	1507.3
22.5°	1476.6	1465.8	1484.7	1480.8	1482.3
25°	1435.8	1425.6	1446.2	1441.7	1441.7
27.5°	1387.5	1380.2	1402.7	1397.9	1397.9
30°	1355.3	1348.0	1371.7	1365.7	1365.7
32.5°	1319.5	1314.5	1337.1	1329.9	1329.9
35°	1262.8	1259.9	1282.2	1273.3	1273.3
37.5°	1204.4	1201.8	1222.0	1211.2	1207.7
40°	1161.4	1160.0	1177.8	1165.9	1165.9
42.5°	1118.5	1117.1	1132.5	1118.2	1118.2
45°	1052.6	1049.7	1060.1	1046.6	1043.7
47.5°	980.7	977.8	984.3	969.7	968.2
50°	931.8	928.9	931.8	918.4	916.9
52.5°	881.7	876.5	877.0	863.5	863.3
55°	805.1	794.9	794.7	782.7	782.7
57.5°	724.0	710.6	711.8	701.6	700.1
60°	667.9	653.4	654.5	645.5	644.1
62.5°	613.1	596.2	599.7	589.5	589.2
65°	521.8	510.2	511.4	506.9	506.9
67.5°	434.2	423.4	431.2	427.6	427.3
70°	369.8	362.5	372.7	372.7	371.2
72.5°	310.1	309.8	322.6	322.7	323.5
75°	225.1	235.3	249.0	250.5	250.5
77.5°	150.3	168.4	183.4	184.0	183.7
80°	107.3	127.8	141.6	144.6	143.1
82.5°	72.8	94.3	105.9	108.8	107.3
85°	32.8	50.3	59.6	61.1	59.6
87.5°	9.8	20.9	26.2	25.0	22.6
90°	1.4	4.3	11.6	5.8	5.8
92.5°	6.1	29.3	64.8	28.7	18.5
95°	14.5	56.9	189.6	97.7	66.6
97.5°	25.2	62.5	283.7	225.6	166.2
100°	33.3	67.3	312.6	316.8	246.0
102.5°	40.2	71.9	320.7	394.6	334.0
105°	52.1	79.0	319.9	485.6	453.0
107.5°	64.3	89.2	301.6	532.8	540.7
110°	72.4	95.0	286.6	545.0	578.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.5	102.0	272.7	537.3	589.4
115°	92.6	112.4	256.2	511.1	583.3
117.5°	104.5	122.6	244.9	474.8	554.9
120°	111.4	128.4	240.3	450.4	528.3
122.5°	118.4	135.4	236.8	426.1	502.8
125°	128.8	144.4	233.0	393.8	464.6
127.5°	137.2	153.1	229.8	367.8	427.5
130°	141.8	158.8	228.7	351.5	406.7
132.5°	146.5	163.5	227.5	337.5	387.0
135°	153.4	169.0	225.8	317.9	360.4
137.5°	160.7	175.9	225.5	303.3	338.1
140°	166.4	180.6	224.3	291.7	324.2
142.5°	171.1	184.1	224.3	283.4	311.5
145°	178.0	189.3	222.9	271.1	292.4
147.5°	185.0	196.0	222.9	260.9	278.5
150°	189.6	199.5	222.9	255.1	269.2
152.5°	194.2	201.9	222.9	250.3	261.1
155°	201.2	206.8	222.9	244.8	251.8
157.5°	206.4	211.8	222.9	239.8	244.9
160°	209.9	214.1	222.9	237.4	240.3
162.5°	213.3	216.5	222.9	235.1	237.9
165°	217.1	219.9	222.9	231.6	234.5
167.5°	220.6	222.0	224.3	230.2	231.3
170°	222.9	224.3	224.3	230.1	230.1
172.5°	224.0	224.3	224.3	228.9	227.8
175°	225.8	225.8	224.3	227.2	227.2
177.5°	225.8	225.8	224.6	226.9	225.8
180°	225.8	225.8	225.8	225.8	225.8

(END OF REPORT)