

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: P561713

Luminaire Tested: **SQ4-PC3-125U-125D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561713
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PC3-125U-125D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

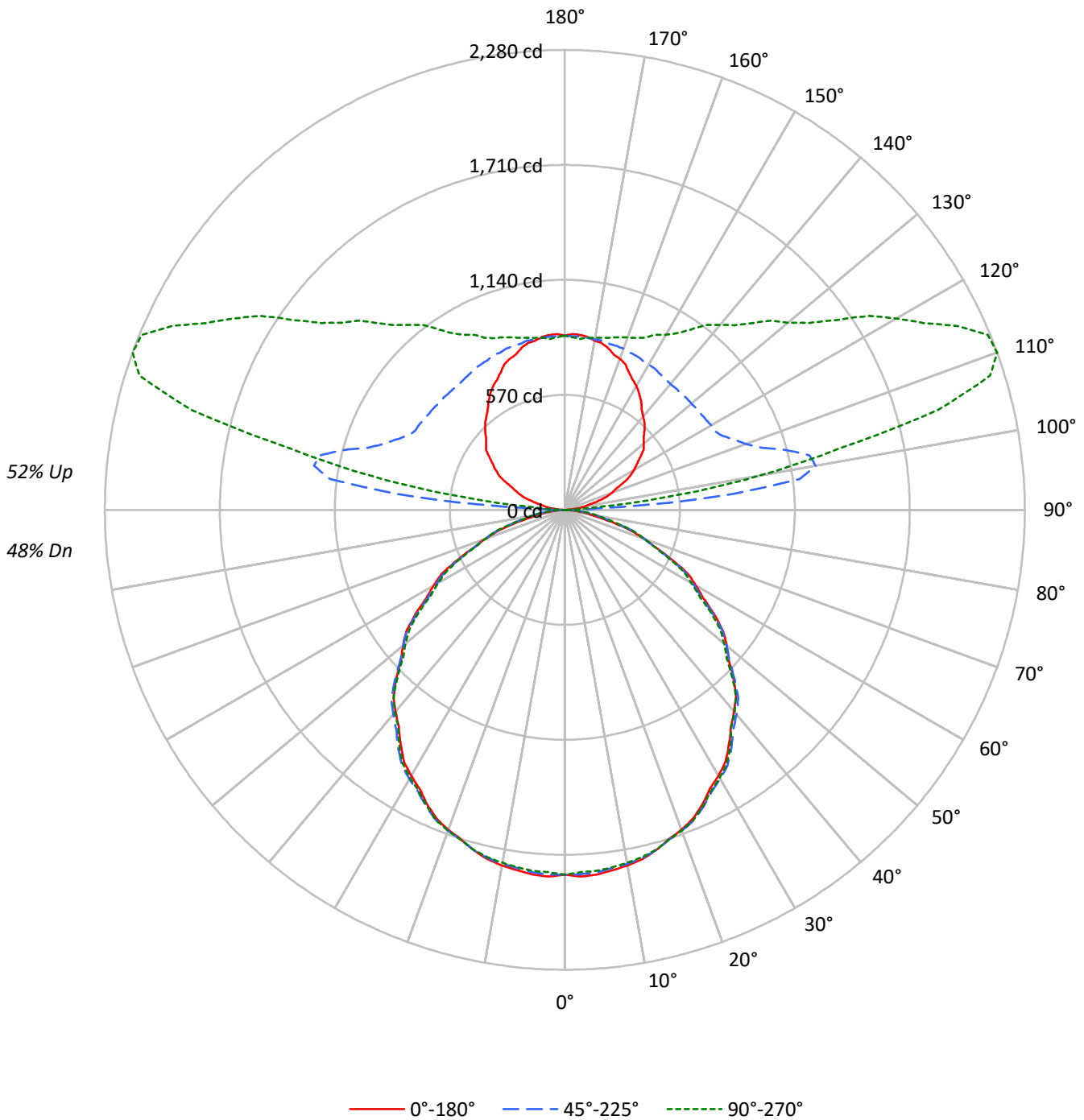
Lumens per Lamp: N/A
Luminaire Lumens: 10298.9 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97.2
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	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	36	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16686	16686	16686
5°	16811	16703	16641
10°	16771	16692	16645
15°	16682	16682	16667
20°	16572	16621	16621
25°	16416	16535	16484
30°	16216	16413	16341
35°	15974	16220	16106
40°	15711	15933	15772
45°	15425	15535	15295
50°	15022	15022	14781
55°	14544	14356	14141
60°	13843	13564	13348
65°	12795	12540	12428
70°	11203	11292	11249
75°	9015	9967	10028
80°	6408	8453	8544
85°	3896	7093	7093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	1.7
10°-20°	491.2	4.8
20°-30°	743.8	7.2
30°-40°	891.7	8.7
40°-50°	909.2	8.8
50°-60°	793.7	7.7
60°-70°	568.2	5.5
70°-80°	292.7	2.8
80°-90°	74.0	0.7
90°-100°	393.4	3.8
100°-110°	1119.5	10.9
110°-120°	1072.5	10.4
120°-130°	848.9	8.2
130°-140°	681.4	6.6
140°-150°	533.4	5.2
150°-160°	390.3	3.8
160°-170°	241.8	2.3
170°-180°	82.0	0.8
0°-30°	1406.1	13.7
0°-40°	2297.8	22.3
0°-60°	4000.8	38.8
0°-90°	4935.7	47.9
90°-120°	2585.4	25.1
90°-150°	4649.1	45.1
90°-180°	5363.0	52.1
0°-180°	10298.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1808	1808	1808	1808	1808	
5°	1815	1797	1804	1798	1797	172
15°	1746	1732	1746	1746	1745	492
25°	1613	1601	1624	1619	1619	742
35°	1418	1415	1440	1430	1430	887
45°	1182	1179	1191	1175	1172	910
55°	904	893	892	879	879	806
65°	586	573	574	569	569	580
75°	253	264	280	281	281	273
85°	37	56	67	69	67	50
90°	0	0	0	0	0	3
95°	43	170	762	264	162	49
105°	174	264	1141	2015	1916	184
115°	323	391	865	1832	2152	318
125°	456	506	826	1370	1638	408
135°	558	605	816	1157	1308	431
145°	658	692	822	1002	1092	411
155°	752	769	842	905	942	348
165°	831	834	852	870	883	234
175°	870	865	862	857	850	82
180°	863	863	863	863	863	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1808.5	1808.5	1808.5	1808.5	1808.5
2.5°	1819.2	1803.5	1808.5	1804.3	1797.8
5°	1815.2	1797.2	1803.5	1798.4	1796.8
7.5°	1802.1	1784.1	1792.4	1789.0	1787.4
10°	1790.1	1772.1	1781.7	1778.3	1776.7
12.5°	1774.0	1757.3	1768.3	1764.9	1764.6
15°	1746.5	1731.8	1746.5	1746.5	1744.9
17.5°	1712.0	1698.6	1714.4	1715.4	1714.4
20°	1687.9	1673.2	1692.9	1691.3	1692.9
22.5°	1658.5	1646.3	1667.5	1663.2	1664.8
25°	1612.6	1601.1	1624.3	1619.3	1619.3
27.5°	1558.3	1550.1	1575.4	1570.0	1570.0
30°	1522.1	1514.0	1540.6	1533.9	1533.9
32.5°	1482.0	1476.4	1501.7	1493.7	1493.7
35°	1418.3	1415.0	1440.1	1430.0	1430.0
37.5°	1352.7	1349.7	1372.4	1360.3	1356.4
40°	1304.5	1302.8	1322.9	1309.5	1309.5
42.5°	1256.2	1254.6	1272.0	1255.9	1255.9
45°	1182.2	1178.9	1190.6	1175.4	1172.2
47.5°	1101.5	1098.2	1105.5	1089.1	1087.4
50°	1046.6	1043.3	1046.6	1031.5	1029.8
52.5°	990.3	984.4	985.0	969.9	969.6
55°	904.2	892.8	892.5	879.1	879.1
57.5°	813.1	798.1	799.4	788.0	786.4
60°	750.2	733.8	735.1	725.0	723.4
62.5°	688.6	669.6	673.5	662.1	661.8
65°	586.1	573.0	574.4	569.3	569.3
67.5°	487.6	475.5	484.3	480.2	479.9
70°	415.3	407.1	418.6	418.6	417.0
72.5°	348.3	348.0	362.4	362.4	363.4
75°	252.9	264.3	279.6	281.3	281.3
77.5°	168.8	189.1	206.0	206.6	206.3
80°	120.6	143.5	159.1	162.4	160.8
82.5°	81.7	105.9	118.9	122.2	120.6
85°	36.8	56.5	67.0	68.6	67.0
87.5°	10.7	22.5	26.8	26.7	24.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	69.6	161.5	47.0	35.5
95°	42.7	169.5	761.6	263.6	162.5
97.5°	78.5	198.5	1173.0	839.3	575.2
100°	103.4	215.8	1262.3	1278.6	984.9
102.5°	131.0	234.3	1242.6	1636.6	1380.1
105°	174.0	263.9	1140.8	2015.1	1915.6
107.5°	217.7	298.2	1022.0	2121.8	2210.4
110°	247.9	323.3	953.7	2080.9	2279.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.7	348.3	907.7	1984.4	2268.1
115°	323.4	390.8	865.0	1832.5	2151.9
117.5°	364.4	427.6	839.8	1666.5	2004.8
120°	397.2	450.2	837.1	1571.7	1895.9
122.5°	423.5	476.5	830.6	1488.4	1789.5
125°	456.3	506.1	825.6	1370.1	1638.1
127.5°	492.1	538.6	823.0	1299.5	1520.3
130°	510.5	557.0	819.1	1250.2	1442.8
132.5°	530.2	575.4	819.1	1211.8	1389.0
135°	558.1	604.6	815.8	1157.4	1308.2
137.5°	584.3	629.6	815.5	1111.3	1241.6
140°	604.0	650.6	814.2	1073.1	1198.2
142.5°	626.4	665.2	818.1	1042.6	1154.9
145°	658.2	691.9	822.4	1001.7	1091.6
147.5°	685.5	718.2	829.6	960.4	1038.0
150°	709.1	731.6	832.2	946.7	1001.3
152.5°	727.5	751.2	834.8	928.2	978.9
155°	751.8	769.4	842.1	905.3	942.2
157.5°	782.0	792.6	843.7	894.9	921.2
160°	797.7	805.8	850.3	886.9	909.4
162.5°	806.9	816.2	851.6	880.2	897.5
165°	830.6	833.8	851.9	870.3	883.1
167.5°	846.7	843.8	859.5	867.8	872.9
170°	851.9	850.3	856.8	858.6	865.0
172.5°	863.7	858.3	860.8	856.0	861.1
175°	870.0	865.1	861.8	856.7	850.3
177.5°	872.6	864.9	860.8	855.5	856.8
180°	863.4	863.4	863.4	863.4	863.4

(END OF REPORT)