

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: P562984

Luminaire Tested: **SQ4-PC3-100U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562984
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-125D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

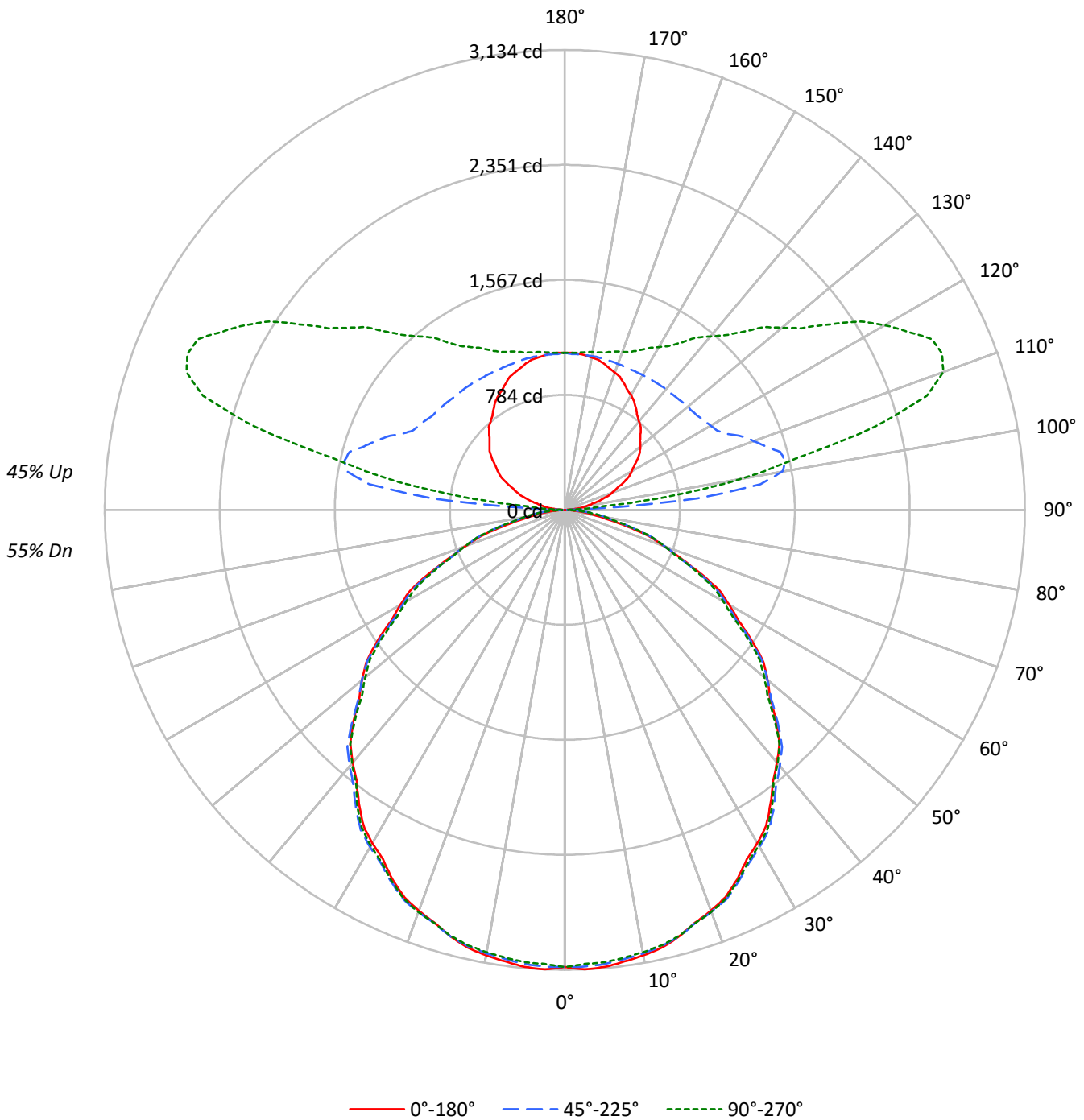
Lumens per Lamp: N/A
Luminaire Lumens: 15449.6 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 140.6
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55		
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	47		
2	90	83	76	71	83	77	72	67	66	62	59	56	54	51	47	45	43	39		
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33		
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28		
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24		
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21		
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19		
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17		
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15		
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14373	14373	14373
5°	14481	14388	14334
10°	14446	14378	14338
15°	14370	14370	14357
20°	14276	14318	14318
25°	14141	14244	14200
30°	13969	14138	14076
35°	13761	13972	13874
40°	13533	13725	13586
45°	13287	13382	13174
50°	12940	12940	12733
55°	12530	12367	12181
60°	11924	11685	11499
65°	11021	10801	10707
70°	9651	9727	9688
75°	7764	8587	8639
80°	5518	7282	7359
85°	3361	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	1.9
10°-20°	846.2	5.5
20°-30°	1281.4	8.3
30°-40°	1536.3	9.9
40°-50°	1566.5	10.1
50°-60°	1367.4	8.9
60°-70°	979.0	6.3
70°-80°	504.2	3.3
80°-90°	129.7	0.8
90°-100°	500.5	3.2
100°-110°	1381.7	8.9
110°-120°	1425.0	9.2
120°-130°	1145.1	7.4
130°-140°	899.9	5.8
140°-150°	690.2	4.5
150°-160°	496.0	3.2
160°-170°	303.4	2.0
170°-180°	102.3	0.7
0°-30°	2422.5	15.7
0°-40°	3958.8	25.6
0°-60°	6892.7	44.6
0°-90°	8505.6	55.1
90°-120°	3307.2	21.4
90°-150°	6042.4	39.1
90°-180°	6944.0	44.9
0°-180°	15449.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3116	3116	3116	3116	3116	
5°	3127	3096	3107	3098	3096	297
15°	3009	2984	3009	3009	3006	848
25°	2778	2758	2798	2790	2790	1279
35°	2444	2438	2481	2464	2464	1528
45°	2037	2031	2051	2025	2019	1568
55°	1558	1538	1538	1515	1515	1389
65°	1010	987	990	981	981	999
75°	436	455	482	485	485	471
85°	64	97	115	118	115	86
90°	3	7	14	15	17	8
95°	74	271	908	373	243	79
105°	246	380	1520	2321	2185	262
115°	441	533	1224	2424	2756	434
125°	605	689	1110	1878	2204	539
135°	728	807	1079	1521	1715	564
145°	845	903	1065	1295	1394	529
155°	952	984	1057	1162	1199	439
165°	1031	1044	1062	1103	1112	291
175°	1069	1070	1064	1079	1076	102
180°	1069	1069	1069	1069	1069	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3115.7	3115.7	3115.7	3115.7	3115.7
2.5°	3134.2	3107.1	3115.7	3108.5	3097.2
5°	3127.2	3096.2	3107.0	3098.3	3095.5
7.5°	3104.7	3073.7	3088.0	3082.2	3079.4
10°	3084.0	3052.9	3069.5	3063.7	3060.9
12.5°	3056.3	3027.5	3046.5	3040.7	3040.1
15°	3009.0	2983.6	3009.0	3008.9	3006.1
17.5°	2949.5	2926.4	2953.6	2955.3	2953.6
20°	2908.0	2882.6	2916.6	2913.8	2916.6
22.5°	2857.2	2836.3	2872.8	2865.4	2868.2
25°	2778.2	2758.4	2798.4	2789.7	2789.7
27.5°	2684.7	2670.6	2714.1	2704.9	2704.9
30°	2622.4	2608.3	2654.1	2642.6	2642.6
32.5°	2553.1	2543.6	2587.2	2573.3	2573.3
35°	2443.5	2437.9	2481.0	2463.7	2463.7
37.5°	2330.4	2325.4	2364.5	2343.5	2336.8
40°	2247.3	2244.5	2279.1	2256.0	2256.0
42.5°	2164.3	2161.4	2191.4	2163.7	2163.7
45°	2036.7	2031.1	2051.2	2025.1	2019.4
47.5°	1897.7	1892.1	1904.6	1876.3	1873.5
50°	1803.1	1797.4	1803.1	1777.0	1774.2
52.5°	1706.1	1696.0	1696.9	1670.9	1670.4
55°	1557.9	1538.1	1537.7	1514.6	1514.6
57.5°	1400.9	1375.0	1377.3	1357.6	1354.8
60°	1292.4	1264.2	1266.5	1249.1	1246.3
62.5°	1186.3	1153.6	1160.3	1140.7	1140.1
65°	1009.7	987.2	989.5	980.9	980.9
67.5°	840.1	819.2	834.3	827.4	826.8
70°	715.5	701.4	721.2	721.2	718.3
72.5°	600.1	599.5	624.3	624.3	626.0
75°	435.6	455.4	481.8	484.7	484.7
77.5°	290.8	325.8	354.8	356.0	355.4
80°	207.7	247.2	274.1	279.8	277.0
82.5°	140.8	182.5	204.8	210.5	207.7
85°	63.5	97.3	115.4	118.2	115.4
87.5°	19.1	40.1	48.9	49.1	45.0
90°	3.4	6.8	13.7	15.4	17.1
92.5°	30.8	127.8	228.5	83.4	65.0
95°	73.5	270.8	908.0	373.2	242.8
97.5°	121.7	303.3	1345.1	1035.6	750.0
100°	157.3	322.8	1506.5	1517.1	1232.9
102.5°	191.5	345.0	1537.9	1874.5	1605.0
105°	246.2	380.0	1520.2	2320.8	2185.3
107.5°	304.4	423.4	1435.3	2536.0	2585.5
110°	345.4	452.4	1369.7	2582.3	2742.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	382.3	485.3	1308.1	2545.7	2782.5
115°	441.2	533.1	1224.3	2423.8	2756.5
117.5°	492.5	584.1	1169.3	2252.1	2630.6
120°	526.7	617.0	1147.4	2135.9	2517.1
122.5°	559.5	645.8	1129.6	2027.3	2388.5
125°	605.3	688.9	1109.8	1878.1	2204.2
127.5°	644.3	727.9	1098.1	1751.9	2033.2
130°	670.3	753.9	1092.7	1674.7	1930.6
132.5°	694.9	774.5	1087.2	1609.9	1841.6
135°	728.4	807.0	1079.0	1521.2	1715.1
137.5°	766.1	837.6	1074.9	1446.6	1612.2
140°	786.6	856.8	1072.2	1396.9	1542.4
142.5°	809.8	874.7	1069.4	1352.8	1480.8
145°	844.7	903.2	1065.3	1295.0	1393.6
147.5°	878.2	929.4	1061.5	1246.3	1322.8
150°	902.9	944.7	1060.2	1217.2	1279.1
152.5°	922.0	961.1	1058.8	1192.3	1243.5
155°	952.5	984.2	1056.8	1161.9	1198.7
157.5°	980.5	1004.9	1057.1	1139.8	1164.8
160°	996.9	1018.6	1058.5	1127.3	1145.7
162.5°	1010.6	1029.7	1059.8	1116.3	1130.6
165°	1031.1	1044.5	1061.9	1103.1	1111.5
167.5°	1046.8	1054.9	1063.6	1095.1	1097.8
170°	1055.1	1061.7	1063.6	1091.0	1091.0
172.5°	1061.9	1065.9	1063.6	1085.5	1084.1
175°	1068.7	1070.4	1063.6	1078.9	1075.6
177.5°	1071.5	1070.1	1063.3	1072.8	1070.1
180°	1068.7	1068.7	1068.7	1068.7	1068.7

(END OF REPORT)