

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: P561700

Luminaire Tested: **SQ4-PC3-125U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561700
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-100D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 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: 9261.6 lumens
Efficiency: N/A
Efficacy: 110.4 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

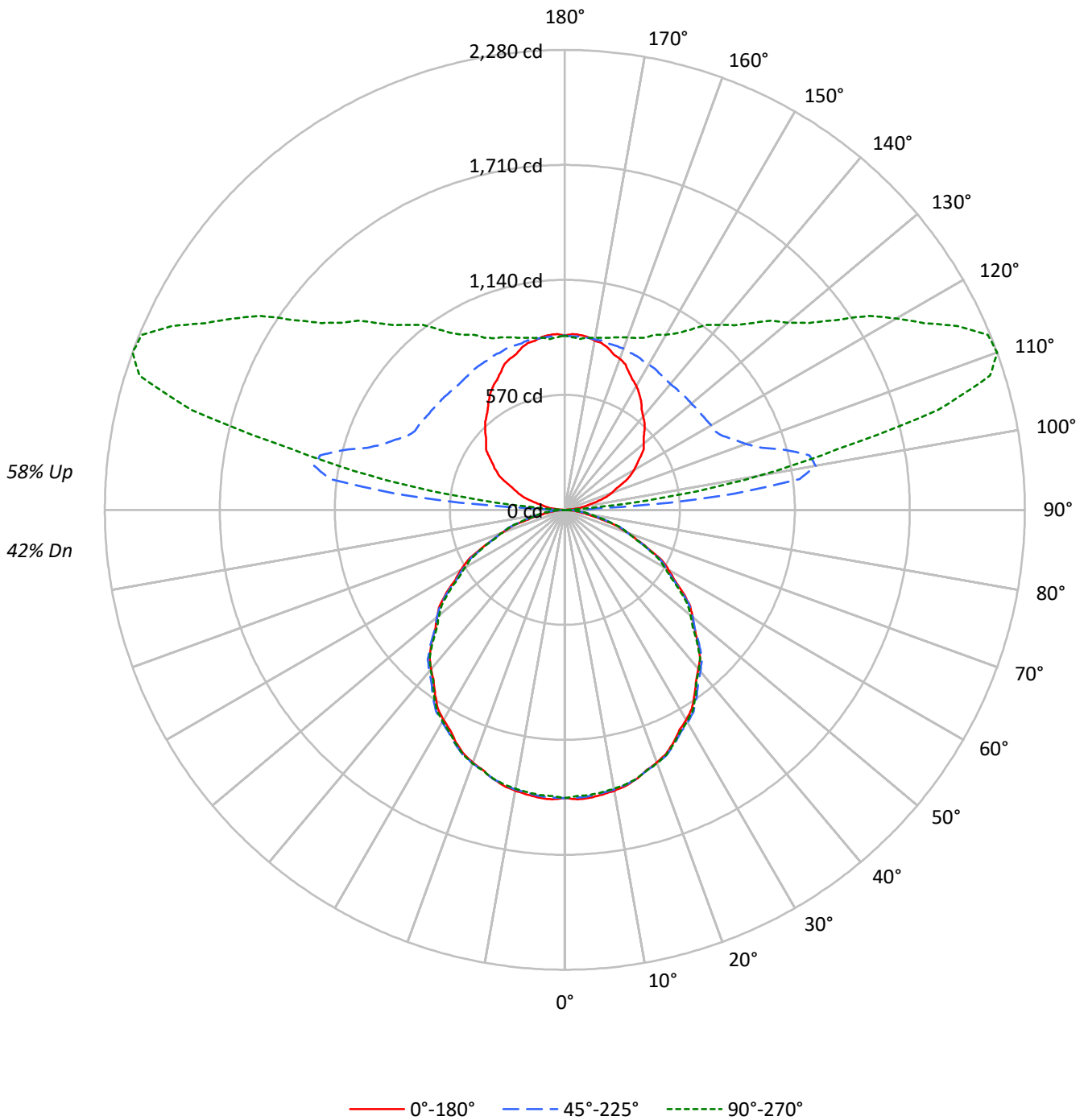
Input Watts (W): 83.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	73	65	58	53	53	49	45	43	40	37	34	32	30	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	28	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	29	24	45	34	27	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13179	13179	13179
5°	13278	13193	13144
10°	13246	13184	13147
15°	13177	13177	13164
20°	13090	13129	13129
25°	12966	13060	13020
30°	12809	12963	12907
35°	12618	12811	12722
40°	12409	12585	12457
45°	12184	12270	12080
50°	11865	11865	11675
55°	11488	11340	11170
60°	10933	10713	10544
65°	10106	9905	9817
70°	8848	8921	8883
75°	7119	7874	7921
80°	5058	6673	6748
85°	3080	5600	5600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	1.5
10°-20°	387.9	4.2
20°-30°	587.5	6.3
30°-40°	704.3	7.6
40°-50°	718.2	7.8
50°-60°	626.9	6.8
60°-70°	448.8	4.8
70°-80°	231.2	2.5
80°-90°	58.5	0.6
90°-100°	393.4	4.2
100°-110°	1119.5	12.1
110°-120°	1072.5	11.6
120°-130°	848.9	9.2
130°-140°	681.4	7.4
140°-150°	533.4	5.8
150°-160°	390.3	4.2
160°-170°	241.8	2.6
170°-180°	82.0	0.9
0°-30°	1110.6	12.0
0°-40°	1814.9	19.6
0°-60°	3160.0	34.1
0°-90°	3898.5	42.1
90°-120°	2585.4	27.9
90°-150°	4649.1	50.2
90°-180°	5363.0	57.9
0°-180°	9261.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1434	1420	1424	1420	1419	136
15°	1380	1368	1380	1380	1378	389
25°	1274	1265	1283	1279	1279	586
35°	1120	1118	1137	1130	1130	701
45°	934	931	940	928	926	719
55°	714	705	705	694	694	637
65°	463	453	454	450	450	458
75°	200	209	221	222	222	216
85°	29	45	53	54	53	40
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°	1428.4	1428.4	1428.4	1428.4	1428.4
2.5°	1436.9	1424.5	1428.4	1425.1	1420.0
5°	1433.7	1419.5	1424.5	1420.5	1419.2
7.5°	1423.4	1409.2	1415.7	1413.1	1411.8
10°	1413.9	1399.7	1407.3	1404.6	1403.3
12.5°	1401.2	1388.0	1396.7	1394.0	1393.8
15°	1379.5	1367.8	1379.5	1379.5	1378.2
17.5°	1352.2	1341.6	1354.1	1354.9	1354.1
20°	1333.2	1321.6	1337.2	1335.9	1337.2
22.5°	1309.9	1300.3	1317.1	1313.7	1314.9
25°	1273.7	1264.6	1282.9	1279.0	1279.0
27.5°	1230.8	1224.4	1244.3	1240.1	1240.1
30°	1202.3	1195.8	1216.8	1211.5	1211.5
32.5°	1170.5	1166.1	1186.1	1179.8	1179.8
35°	1120.3	1117.7	1137.4	1129.5	1129.5
37.5°	1068.4	1066.1	1084.0	1074.4	1071.3
40°	1030.3	1029.0	1044.9	1034.3	1034.3
42.5°	992.2	990.9	1004.7	992.0	992.0
45°	933.8	931.2	940.4	928.4	925.8
47.5°	870.0	867.4	873.2	860.2	858.9
50°	826.6	824.0	826.6	814.7	813.4
52.5°	782.2	777.5	778.0	766.1	765.8
55°	714.2	705.2	705.0	694.4	694.4
57.5°	642.3	630.4	631.4	622.4	621.1
60°	592.5	579.6	580.6	572.7	571.4
62.5°	543.9	528.9	532.0	523.0	522.7
65°	462.9	452.6	453.7	449.7	449.7
67.5°	385.1	375.6	382.5	379.3	379.1
70°	328.0	321.5	330.7	330.6	329.3
72.5°	275.1	274.8	286.2	286.2	287.0
75°	199.7	208.8	220.9	222.2	222.2
77.5°	133.3	149.4	162.7	163.2	162.9
80°	95.2	113.3	125.6	128.3	127.0
82.5°	64.5	83.7	93.9	96.5	95.2
85°	29.1	44.6	52.9	54.2	52.9
87.5°	8.5	17.8	21.2	21.1	19.0
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)