

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: P561752

Luminaire Tested: **SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561752
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-PC3-150U-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 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

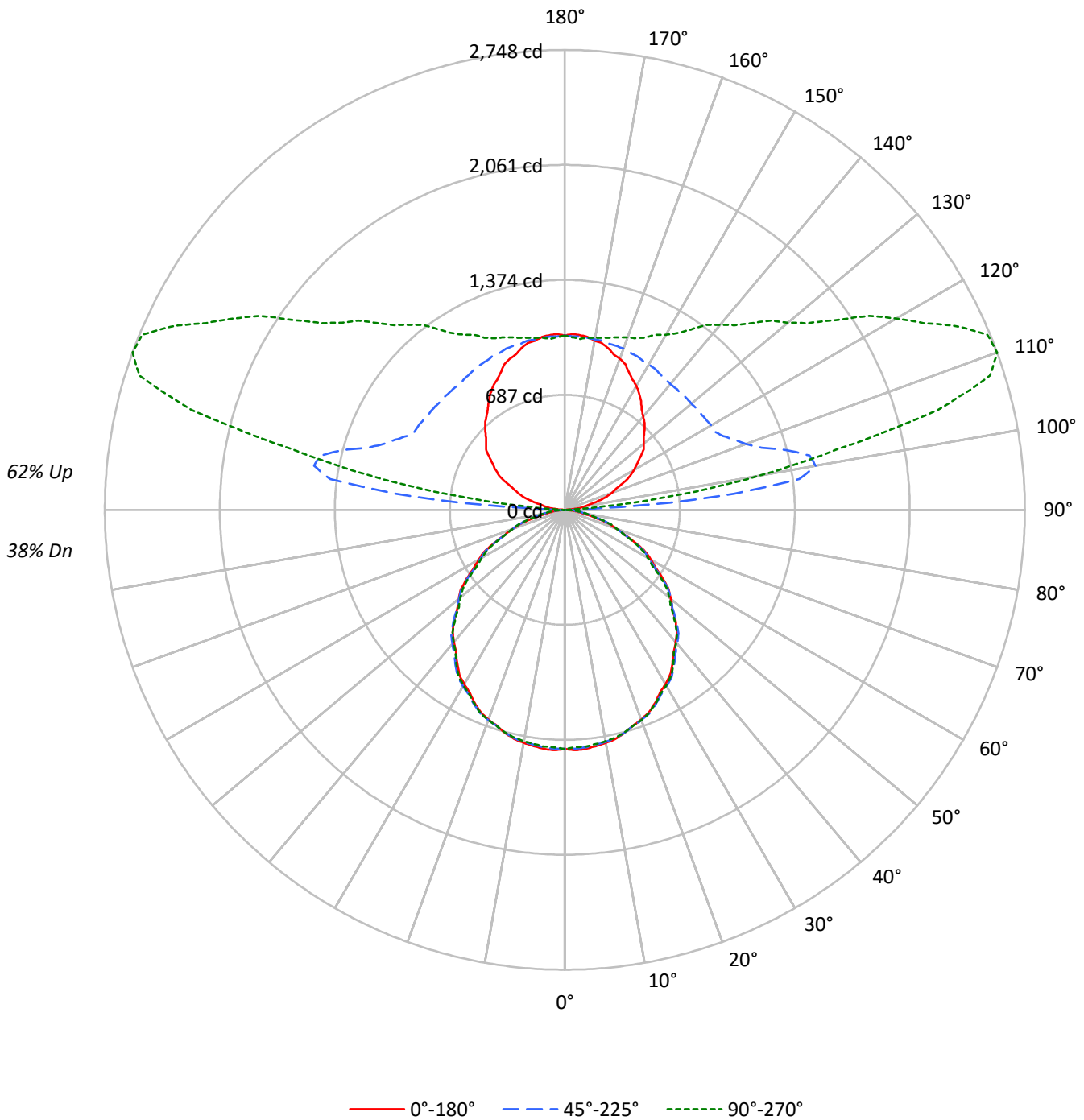
Lumens per Lamp: N/A
Luminaire Lumens: 10361.8 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 93.6
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	0
RCR																		
0	104	104	104	104	95	95	95	95	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	33	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

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	1.3
10°-20°	387.9	3.7
20°-30°	587.5	5.7
30°-40°	704.3	6.8
40°-50°	718.2	6.9
50°-60°	626.9	6.1
60°-70°	448.8	4.3
70°-80°	231.2	2.2
80°-90°	58.5	0.6
90°-100°	474.1	4.6
100°-110°	1349.1	13.0
110°-120°	1292.6	12.5
120°-130°	1023.0	9.9
130°-140°	821.1	7.9
140°-150°	642.8	6.2
150°-160°	470.4	4.5
160°-170°	291.4	2.8
170°-180°	98.9	1.0
0°-30°	1110.6	10.7
0°-40°	1814.9	17.5
0°-60°	3160.0	30.5
0°-90°	3898.5	37.6
90°-120°	3115.8	30.1
90°-150°	5602.8	54.1
90°-180°	6463.0	62.4
0°-180°	10361.8	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°	51	204	918	318	196	59
105°	210	318	1375	2428	2308	222
115°	390	471	1042	2208	2593	384
125°	550	610	995	1651	1974	492
135°	673	729	983	1395	1577	519
145°	793	834	991	1207	1316	496
155°	906	927	1015	1091	1136	419
165°	1001	1005	1027	1049	1064	281
175°	1048	1043	1038	1032	1025	99
180°	1040	1040	1040	1040	1040	

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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°	15.8	83.9	194.7	56.7	42.7
95°	51.4	204.2	917.9	317.7	195.8
97.5°	94.6	239.2	1413.6	1011.5	693.2
100°	124.6	260.0	1521.2	1540.9	1186.9
102.5°	157.9	282.4	1497.5	1972.3	1663.2
105°	209.7	318.0	1374.8	2428.4	2308.5
107.5°	262.3	359.4	1231.6	2557.0	2663.8
110°	298.7	389.6	1149.3	2507.8	2747.7

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CATALOG NUMBER: SQ4-PC3-150U-100D-92765-1D-UNV-STD-W-4 (3000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	333.5	419.8	1093.9	2391.5	2733.4
115°	389.7	470.9	1042.5	2208.5	2593.4
117.5°	439.2	515.4	1012.0	2008.4	2416.1
120°	478.7	542.5	1008.9	1894.1	2284.8
122.5°	510.4	574.2	1001.0	1793.7	2156.6
125°	549.9	609.9	995.0	1651.2	1974.2
127.5°	593.1	649.1	991.9	1566.0	1832.2
130°	615.2	671.3	987.1	1506.7	1738.8
132.5°	638.9	693.5	987.1	1460.4	1673.9
135°	672.6	728.7	983.2	1394.8	1576.6
137.5°	704.2	758.8	982.8	1339.2	1496.3
140°	728.0	784.1	981.2	1293.2	1444.1
142.5°	754.9	801.7	985.9	1256.4	1391.8
145°	793.2	833.9	991.1	1207.2	1315.5
147.5°	826.1	865.5	999.8	1157.4	1251.0
150°	854.6	881.6	1002.9	1140.9	1206.7
152.5°	876.7	905.4	1006.1	1118.7	1179.8
155°	906.0	927.3	1014.8	1091.0	1135.5
157.5°	942.4	955.2	1016.8	1078.4	1110.1
160°	961.4	971.1	1024.7	1068.8	1095.9
162.5°	972.5	983.7	1026.3	1060.8	1081.7
165°	1001.0	1004.8	1026.7	1048.8	1064.3
167.5°	1020.3	1016.9	1035.8	1045.8	1052.0
170°	1026.7	1024.7	1032.6	1034.8	1042.5
172.5°	1040.9	1034.3	1037.4	1031.6	1037.7
175°	1048.4	1042.6	1038.5	1032.4	1024.7
177.5°	1051.6	1042.3	1037.4	1031.1	1032.6
180°	1040.5	1040.5	1040.5	1040.5	1040.5

(END OF REPORT)