

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: P562103

Luminaire Tested: **SQ4-PR1-150U-075D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562103
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-150U-075D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 750 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

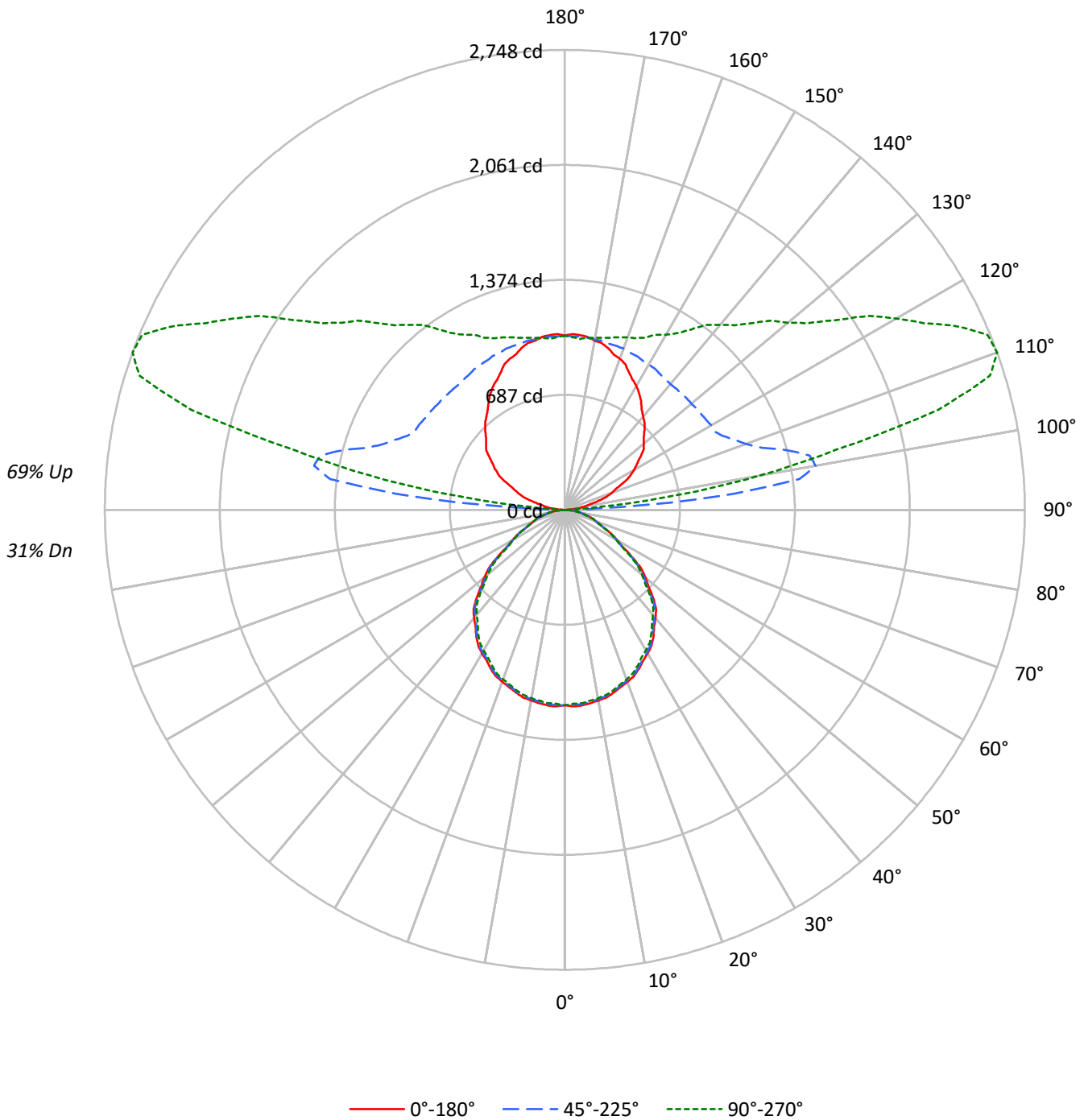
Lumens per Lamp: N/A
Luminaire Lumens: 9383.5 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 83.1
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	90	86	83	84	81	78	75	64	62	60	49	47	46	35	34	33	27
2	85	78	73	68	77	71	66	62	56	53	50	43	41	39	31	29	28	23
3	78	69	62	56	70	62	56	52	50	46	42	38	35	33	27	26	24	19
4	71	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21	17
5	65	54	47	41	59	49	43	37	40	35	31	30	27	25	22	20	18	15
6	60	49	41	35	54	44	37	32	36	31	27	28	24	21	20	18	16	13
7	56	44	36	31	50	40	33	28	32	27	24	25	22	19	18	16	14	11
8	52	40	32	27	46	36	30	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	13	12	9
10	45	33	26	21	40	30	24	20	25	20	17	19	16	14	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10777	10777	10777
5°	10874	10791	10734
10°	10839	10764	10707
15°	10792	10725	10667
20°	10738	10669	10590
25°	10663	10590	10468
30°	10547	10472	10322
35°	10391	10301	10154
40°	10154	10046	9864
45°	9740	9571	9374
50°	9011	8794	8622
55°	7866	7687	7525
60°	6628	6573	6442
65°	5733	5755	5711
70°	5266	5293	5293
75°	5058	5058	5094
80°	4755	4814	4755
85°	3832	4256	4256



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	1.2
10°-20°	316.0	3.4
20°-30°	476.7	5.1
30°-40°	568.0	6.1
40°-50°	560.0	6.0
50°-60°	428.0	4.6
60°-70°	264.8	2.8
70°-80°	150.4	1.6
80°-90°	45.7	0.5
90°-100°	474.1	5.1
100°-110°	1349.1	14.4
110°-120°	1292.6	13.8
120°-130°	1023.0	10.9
130°-140°	821.1	8.8
140°-150°	642.8	6.9
150°-160°	470.4	5.0
160°-170°	291.4	3.1
170°-180°	98.9	1.1
0°-30°	903.2	9.6
0°-40°	1471.2	15.7
0°-60°	2459.1	26.2
0°-90°	2920.1	31.1
90°-120°	3115.8	33.2
90°-150°	5602.8	59.7
90°-180°	6463.0	68.9
0°-180°	9383.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1174	1161	1165	1161	1159	111
15°	1130	1118	1123	1119	1117	319
25°	1047	1035	1040	1029	1028	482
35°	923	912	915	902	902	576
45°	746	737	734	720	718	572
55°	489	481	478	470	468	438
65°	263	261	264	262	262	266
75°	142	142	142	143	143	150
85°	36	38	40	40	40	42
90°	0	0	0	0	0	4
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°	1168.1	1168.1	1168.1	1168.1	1168.1
2.5°	1175.3	1165.1	1168.1	1165.6	1160.1
5°	1174.1	1161.4	1165.1	1161.0	1159.0
7.5°	1165.1	1152.5	1156.2	1152.2	1151.0
10°	1157.0	1145.2	1149.0	1144.9	1142.9
12.5°	1148.2	1135.6	1140.1	1135.3	1133.3
15°	1129.9	1118.1	1122.8	1118.8	1116.8
17.5°	1109.7	1097.2	1101.9	1097.2	1094.7
20°	1093.7	1081.8	1086.6	1079.5	1078.6
22.5°	1075.9	1064.1	1068.9	1059.4	1059.2
25°	1047.4	1034.6	1040.3	1029.2	1028.3
27.5°	1013.4	1001.6	1006.3	995.0	993.8
30°	990.0	978.2	983.0	970.9	968.9
32.5°	963.5	952.4	956.4	944.3	943.1
35°	922.6	911.8	914.6	902.5	901.5
37.5°	876.1	866.3	867.9	854.6	853.6
40°	843.1	833.3	834.1	820.0	819.0
42.5°	806.9	797.1	796.2	782.1	781.1
45°	746.5	736.7	733.5	720.3	718.4
47.5°	677.7	667.9	661.8	651.1	649.8
50°	627.8	618.0	612.7	603.6	600.7
52.5°	573.9	564.1	559.6	551.3	548.3
55°	489.0	481.1	477.9	469.8	467.8
57.5°	408.3	403.0	402.0	394.2	393.4
60°	359.2	356.2	356.2	349.1	349.1
62.5°	317.3	315.2	316.7	312.1	311.3
65°	262.6	260.6	263.6	261.6	261.6
67.5°	219.3	219.3	221.1	220.3	220.3
70°	195.2	195.2	196.2	196.2	196.2
72.5°	173.5	172.7	175.3	175.2	174.5
75°	141.9	141.9	141.9	142.9	142.9
77.5°	110.5	110.7	111.5	111.3	110.5
80°	89.5	90.5	90.6	89.5	89.5
82.5°	68.6	69.6	69.6	69.4	68.6
85°	36.2	38.2	40.2	40.2	40.2
87.5°	10.5	13.6	16.1	16.1	15.3
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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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)