

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: P562116

Luminaire Tested: **SQ4-PR1-150U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562116
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-100D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE 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

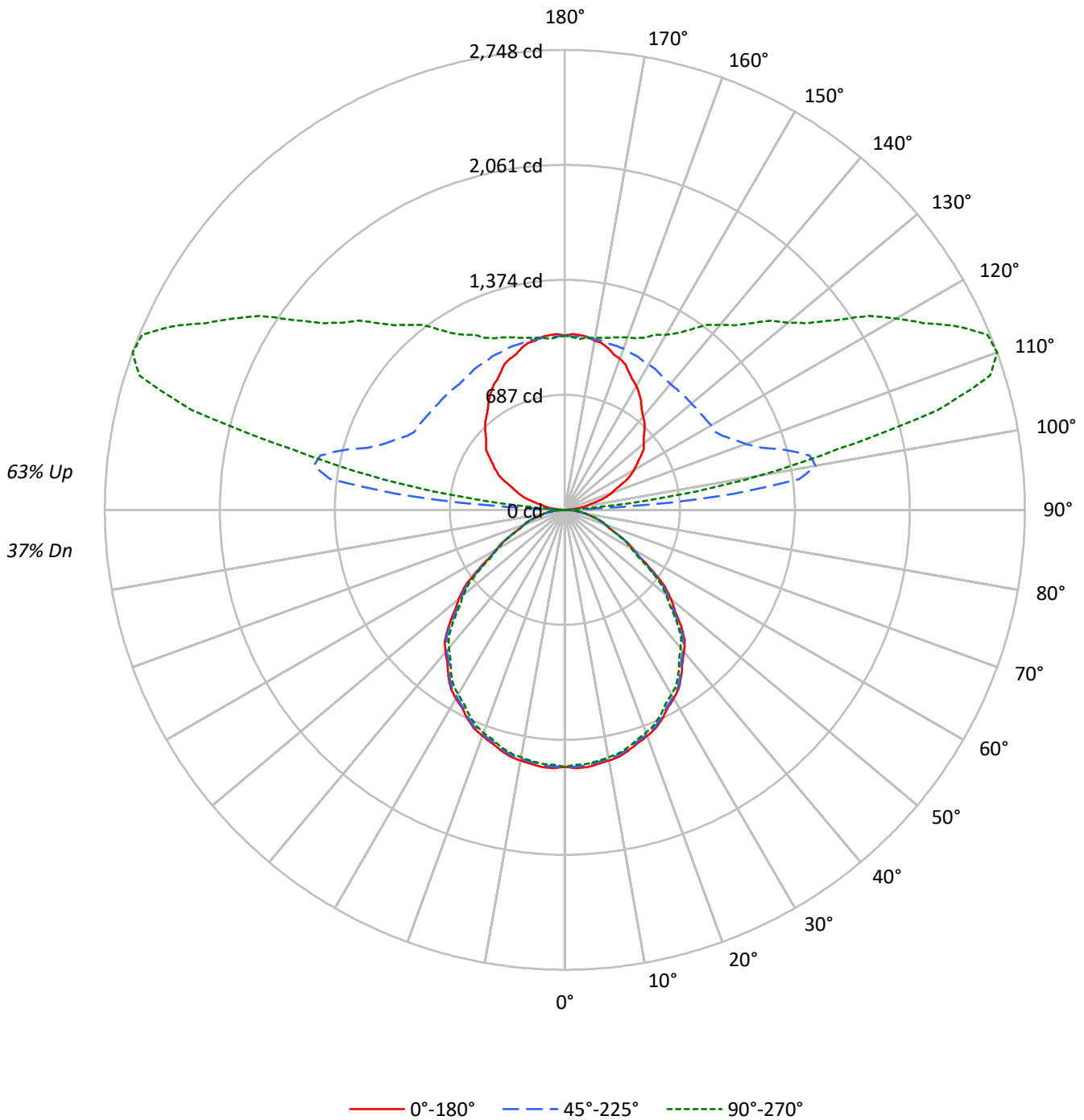
Lumens per Lamp: N/A
Luminaire Lumens: 10302.1 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	40	39	38	32
2	87	80	74	69	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	28	23
4	73	62	55	49	66	57	50	45	46	42	38	37	34	31	28	26	24	20
5	67	55	48	42	60	51	44	39	42	36	33	33	30	27	25	23	21	17
6	61	50	42	36	55	45	39	34	37	32	28	30	26	23	23	20	18	15
7	57	45	37	32	51	41	34	29	34	29	25	27	23	21	21	18	16	14
8	52	41	33	28	48	37	31	26	31	26	22	25	21	18	19	17	15	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	17	18	15	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14168	14168	14168
5°	14295	14185	14111
10°	14250	14150	14076
15°	14187	14098	14023
20°	14116	14024	13920
25°	14016	13922	13760
30°	13866	13766	13569
35°	13660	13542	13348
40°	13348	13205	12967
45°	12805	12581	12321
50°	11846	11562	11333
55°	10340	10105	9893
60°	8713	8639	8468
65°	7536	7564	7508
70°	6922	6957	6957
75°	6648	6648	6695
80°	6254	6323	6254
85°	5039	5600	5600



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	1.4
10°-20°	415.5	4.0
20°-30°	626.6	6.1
30°-40°	746.6	7.2
40°-50°	736.1	7.1
50°-60°	562.6	5.5
60°-70°	348.2	3.4
70°-80°	197.7	1.9
80°-90°	60.1	0.6
90°-100°	474.1	4.6
100°-110°	1349.1	13.1
110°-120°	1292.6	12.5
120°-130°	1023.0	9.9
130°-140°	821.1	8.0
140°-150°	642.8	6.2
150°-160°	470.4	4.6
160°-170°	291.4	2.8
170°-180°	98.9	1.0
0°-30°	1187.3	11.5
0°-40°	1934.0	18.8
0°-60°	3232.7	31.4
0°-90°	3838.7	37.3
90°-120°	3115.8	30.2
90°-150°	5602.8	54.4
90°-180°	6463.0	62.7
0°-180°	10302.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1544	1527	1532	1526	1524	146
15°	1485	1470	1476	1471	1468	419
25°	1377	1360	1368	1353	1352	634
35°	1213	1199	1202	1186	1185	757
45°	981	968	964	947	944	752
55°	643	632	628	618	615	576
65°	345	343	346	344	344	350
75°	186	186	186	188	188	197
85°	48	50	53	53	53	55
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°	1535.6	1535.6	1535.6	1535.6	1535.6
2.5°	1545.1	1531.6	1535.6	1532.2	1525.0
5°	1543.5	1526.7	1531.6	1526.2	1523.6
7.5°	1531.6	1515.0	1519.9	1514.6	1513.1
10°	1521.0	1505.5	1510.4	1505.1	1502.5
12.5°	1509.4	1492.8	1498.8	1492.4	1489.8
15°	1485.3	1469.8	1476.0	1470.7	1468.1
17.5°	1458.8	1442.3	1448.5	1442.4	1439.0
20°	1437.7	1422.2	1428.4	1419.1	1417.8
22.5°	1414.4	1398.9	1405.1	1392.7	1392.4
25°	1376.8	1360.0	1367.6	1353.0	1351.7
27.5°	1332.1	1316.6	1322.9	1308.0	1306.5
30°	1301.5	1285.9	1292.2	1276.3	1273.7
32.5°	1266.5	1252.0	1257.3	1241.4	1239.8
35°	1212.8	1198.6	1202.3	1186.4	1185.1
37.5°	1151.7	1138.8	1140.9	1123.4	1122.1
40°	1108.3	1095.4	1096.4	1077.9	1076.6
42.5°	1060.7	1047.8	1046.7	1028.2	1026.9
45°	981.4	968.4	964.2	946.9	944.3
47.5°	890.9	878.0	870.0	856.0	854.1
50°	825.3	812.4	805.5	793.5	789.6
52.5°	754.4	741.5	735.6	724.7	720.8
55°	642.8	632.4	628.2	617.6	615.0
57.5°	536.7	529.7	528.5	518.2	517.1
60°	472.2	468.3	468.2	458.9	458.9
62.5°	417.2	414.3	416.4	410.3	409.2
65°	345.2	342.6	346.5	343.9	343.9
67.5°	288.3	288.3	290.7	289.7	289.7
70°	256.6	256.6	257.9	257.9	257.9
72.5°	228.0	227.0	230.4	230.4	229.3
75°	186.5	186.5	186.5	187.8	187.8
77.5°	145.2	145.5	146.5	146.3	145.2
80°	117.7	119.0	119.0	117.7	117.7
82.5°	90.2	91.5	91.5	91.2	90.2
85°	47.6	50.2	52.9	52.9	52.9
87.5°	13.8	17.9	21.2	21.1	20.1
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)