

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: P564663

Luminaire Tested: **SQ4-PW1-050U-075D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564663
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-050U-075D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

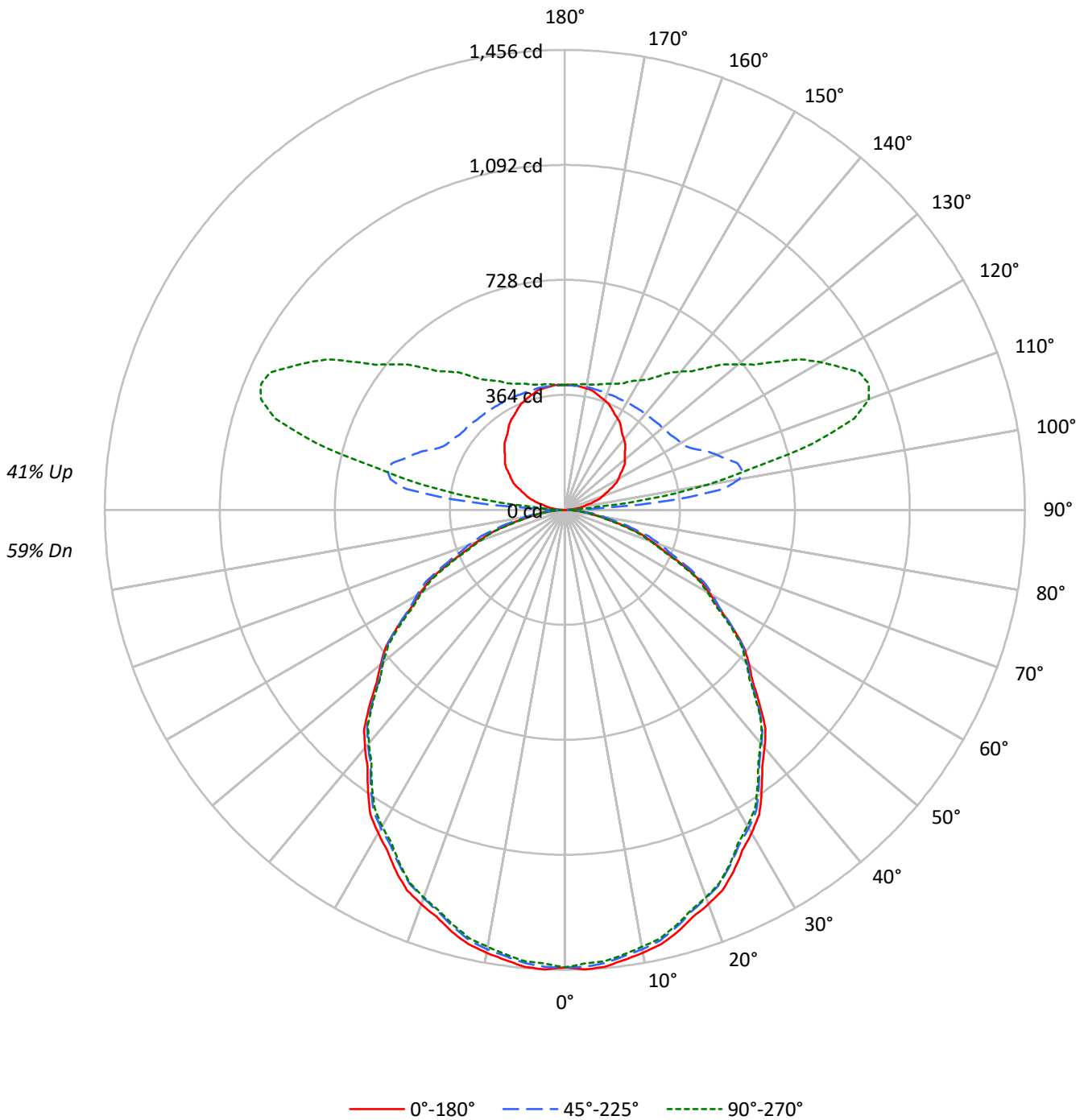
Lumens per Lamp: N/A
Luminaire Lumens: 6269.4 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.5
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50
2	91	84	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	74	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	54	48	43	46	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	23
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	40	33	28	36	30	26	31	27	23	27	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8908	8908	8908
5°	8966	8895	8856
10°	8894	8823	8775
15°	8800	8703	8670
20°	8695	8562	8545
25°	8574	8417	8392
30°	8392	8266	8211
35°	8154	8039	7991
40°	7899	7776	7746
45°	7592	7492	7459
50°	7277	7216	7167
55°	6938	6938	6829
60°	6515	6640	6404
65°	5961	6258	5813
70°	5255	5760	5118
75°	4489	5155	4368
80°	3482	4339	3524
85°	2251	3331	2971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	2.2
10°-20°	385.0	6.1
20°-30°	571.2	9.1
30°-40°	668.3	10.7
40°-50°	665.3	10.6
50°-60°	574.5	9.2
60°-70°	413.6	6.6
70°-80°	216.9	3.5
80°-90°	55.3	0.9
90°-100°	189.9	3.0
100°-110°	515.9	8.2
110°-120°	530.4	8.5
120°-130°	424.1	6.8
130°-140°	333.2	5.3
140°-150°	255.5	4.1
150°-160°	183.7	2.9
160°-170°	112.4	1.8
170°-180°	37.9	0.6
0°-30°	1092.6	17.4
0°-40°	1760.9	28.1
0°-60°	3000.7	47.9
0°-90°	3686.4	58.8
90°-120°	1236.2	19.7
90°-150°	2249.0	35.9
90°-180°	2583.0	41.2
0°-180°	6269.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1452	1436	1441	1437	1434	138
15°	1382	1364	1367	1364	1362	390
25°	1263	1242	1240	1233	1236	581
35°	1086	1071	1071	1060	1064	679
45°	873	865	861	859	858	673
55°	647	646	647	638	637	577
65°	410	422	430	413	399	406
75°	189	206	217	202	184	202
85°	32	42	47	45	42	42
90°	1	5	9	11	11	3
95°	28	104	331	144	97	30
105°	92	143	567	864	813	97
115°	163	198	454	903	1029	161
125°	224	255	411	692	817	200
135°	270	300	399	564	636	209
145°	312	334	394	479	515	196
155°	352	365	392	430	443	162
165°	382	387	393	410	411	108
175°	396	397	394	399	398	38
180°	396	396	396	396	396	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.3	1448.3	1448.3	1448.3	1448.3
2.5°	1456.5	1444.5	1448.3	1445.1	1438.1
5°	1452.2	1435.9	1440.7	1436.8	1434.3
7.5°	1437.3	1422.4	1425.9	1421.7	1420.2
10°	1424.1	1409.1	1412.6	1407.4	1404.9
12.5°	1408.8	1392.8	1396.3	1391.1	1389.6
15°	1382.0	1364.5	1366.7	1364.0	1361.6
17.5°	1350.8	1333.1	1333.5	1329.4	1328.9
20°	1328.4	1309.7	1308.0	1302.9	1305.4
22.5°	1303.9	1284.2	1282.4	1275.4	1278.9
25°	1263.3	1242.1	1240.3	1232.8	1236.5
27.5°	1216.3	1195.4	1195.4	1184.8	1188.8
30°	1181.6	1161.7	1163.8	1151.1	1156.1
32.5°	1144.9	1126.9	1128.0	1115.4	1120.4
35°	1085.9	1071.0	1070.6	1060.5	1064.2
37.5°	1025.7	1012.5	1010.4	1004.5	1005.5
40°	983.8	972.6	968.5	964.7	964.7
42.5°	939.9	929.7	925.7	922.8	921.8
45°	872.8	865.3	861.3	858.8	857.5
47.5°	806.5	799.5	796.0	794.2	792.9
50°	760.5	755.5	754.1	750.3	749.0
52.5°	714.6	711.6	710.3	705.4	704.1
55°	647.0	645.7	647.0	638.0	636.8
57.5°	576.5	578.5	582.6	570.6	567.6
60°	529.6	534.6	539.8	525.6	520.6
62.5°	481.6	489.6	496.9	480.7	473.7
65°	409.6	422.1	430.0	413.1	399.4
67.5°	340.2	355.7	365.2	347.0	331.5
70°	292.2	309.7	320.3	302.0	284.6
72.5°	250.4	269.8	278.4	261.2	243.7
75°	188.9	206.3	216.9	202.5	183.8
77.5°	134.0	150.5	159.3	146.6	131.2
80°	98.3	115.7	122.5	112.0	99.5
82.5°	69.7	84.1	88.8	82.5	74.0
85°	31.9	41.9	47.2	44.6	42.1
87.5°	8.4	16.2	21.2	21.7	22.7
90°	1.3	5.0	8.9	11.4	11.4
92.5°	11.4	52.0	90.3	38.8	32.8
95°	28.0	103.9	330.7	143.9	96.7
97.5°	46.3	114.7	507.0	394.5	277.0
100°	58.5	121.9	561.0	568.6	459.2
102.5°	70.7	129.2	575.2	703.3	606.8
105°	91.6	142.6	567.3	863.8	812.8
107.5°	113.2	158.2	534.5	946.7	960.9
110°	128.5	169.5	510.1	963.0	1024.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.7	180.8	485.7	949.5	1041.3
115°	162.8	197.6	454.1	903.4	1029.1
117.5°	182.7	216.0	434.0	838.2	979.7
120°	195.9	228.2	424.9	794.4	934.9
122.5°	207.1	239.4	418.7	750.5	886.1
125°	223.9	255.0	410.9	692.3	816.6
127.5°	238.9	269.7	406.5	648.1	754.8
130°	248.0	277.9	404.5	620.4	716.1
132.5°	257.2	287.1	402.5	596.7	681.5
135°	269.7	299.5	399.4	563.9	636.0
137.5°	283.2	310.3	397.9	534.9	595.6
140°	291.3	317.4	396.9	516.4	571.1
142.5°	299.4	323.6	395.9	502.0	547.7
145°	311.6	334.0	394.3	479.1	515.2
147.5°	325.4	344.5	393.1	461.1	489.5
150°	334.5	350.7	393.1	450.8	473.2
152.5°	341.7	355.8	392.0	441.6	460.0
155°	352.3	364.8	391.8	430.2	442.7
157.5°	362.8	372.5	391.8	422.5	432.0
160°	368.9	377.6	391.8	417.4	424.9
162.5°	375.0	381.7	392.8	413.3	418.7
165°	381.6	386.6	393.1	409.6	410.9
167.5°	388.5	391.0	394.3	405.3	406.3
170°	390.5	393.0	394.3	403.2	403.2
172.5°	392.5	394.0	394.3	401.2	401.2
175°	395.6	396.8	394.3	399.4	398.1
177.5°	396.6	396.6	393.6	397.6	395.6
180°	395.6	395.6	395.6	395.6	395.6

(END OF REPORT)