

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: P563180

Luminaire Tested: **SQ4-PP3-025U-050D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563180
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-025U-050D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

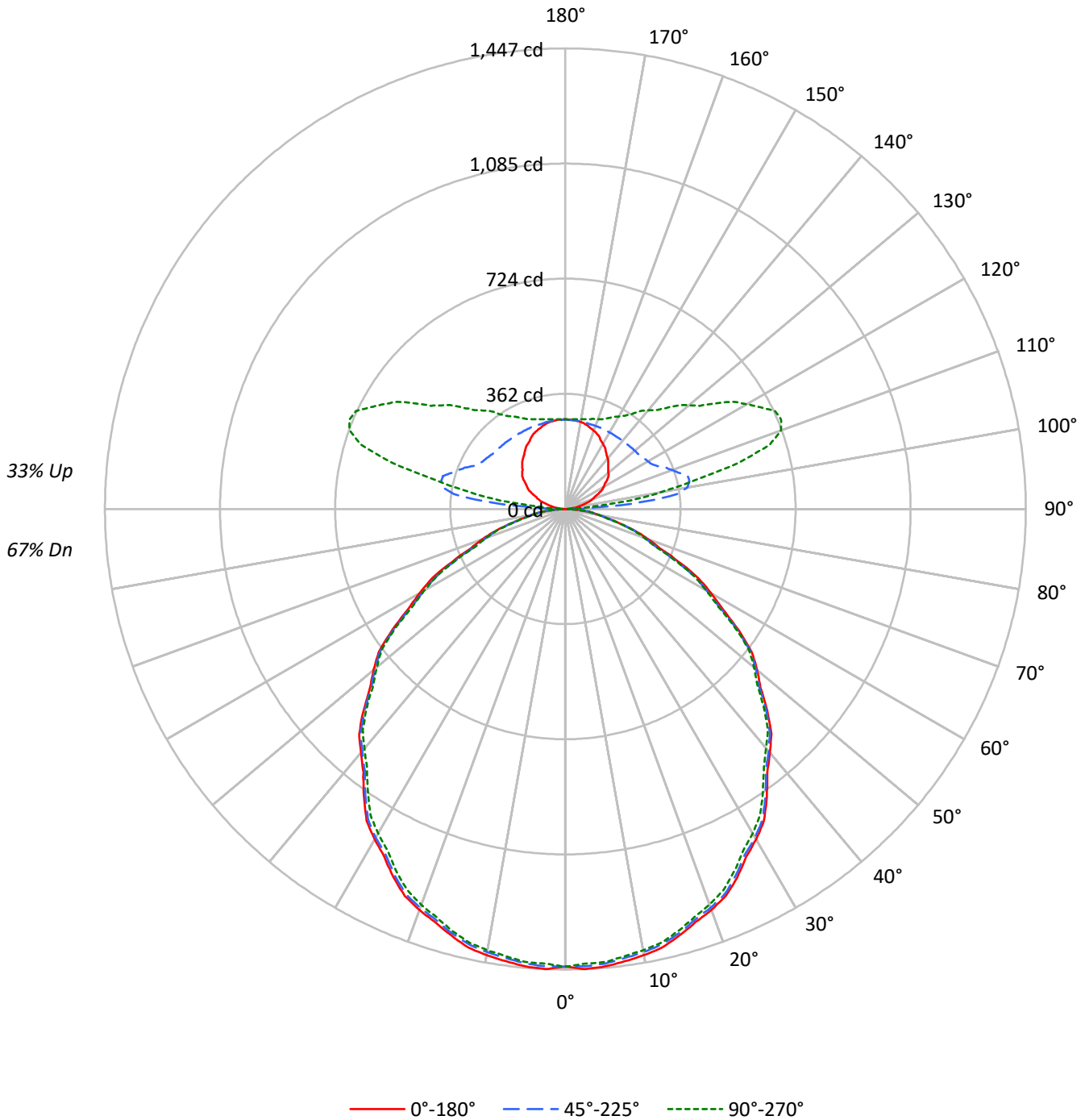
Lumens per Lamp: N/A
Luminaire Lumens: 5504.9 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.7
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	50	30	10	0	
RCR																						
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67				
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57				
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52	48				
3	85	75	68	62	80	71	65	59	64	58	54	57	53	49	50	47	44	41				
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35				
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	33	31				
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	30	27				
7	61	49	40	35	57	46	39	34	42	36	31	38	32	29	34	29	26	24				
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21				
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19				
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6633	6633	6633
5°	6681	6640	6617
10°	6670	6623	6593
15°	6626	6590	6554
20°	6582	6545	6495
25°	6504	6459	6395
30°	6384	6350	6269
35°	6217	6174	6096
40°	6018	5980	5911
45°	5853	5812	5755
50°	5643	5607	5553
55°	5351	5280	5240
60°	4871	4732	4708
65°	4292	4113	4099
70°	3705	3553	3553
75°	3189	3144	3100
80°	2811	2845	2779
85°	2202	2403	2403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	2.5
10°-20°	388.2	7.1
20°-30°	581.5	10.6
30°-40°	682.0	12.4
40°-50°	684.2	12.4
50°-60°	583.6	10.6
60°-70°	380.6	6.9
70°-80°	191.0	3.5
80°-90°	54.4	1.0
90°-100°	137.1	2.5
100°-110°	360.4	6.5
110°-120°	373.8	6.8
120°-130°	299.8	5.4
130°-140°	235.2	4.3
140°-150°	180.5	3.3
150°-160°	130.0	2.4
160°-170°	79.6	1.4
170°-180°	26.9	0.5
0°-30°	1105.6	20.1
0°-40°	1787.7	32.5
0°-60°	3055.5	55.5
0°-90°	3681.5	66.9
90°-120°	871.3	15.8
90°-150°	1586.9	28.8
90°-180°	1823.0	33.1
0°-180°	5504.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1443	1429	1434	1429	1429	137
15°	1387	1374	1380	1375	1372	391
25°	1278	1263	1269	1258	1256	588
35°	1104	1093	1096	1084	1082	690
45°	897	891	891	882	882	691
55°	665	663	656	653	652	591
65°	393	386	377	374	376	392
75°	179	179	176	175	174	194
85°	42	45	45	45	45	49
90°	2	5	14	7	7	3
95°	18	71	236	122	83	20
105°	65	98	398	605	564	69
115°	115	140	319	637	727	114
125°	160	180	290	491	579	142
135°	191	211	281	396	449	148
145°	222	236	278	338	364	139
155°	251	258	278	305	314	115
165°	270	274	278	289	292	76
175°	281	281	280	283	283	27
180°	281	281	281	281	281	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.8	1437.8	1437.8	1437.8	1437.8
2.5°	1446.9	1435.0	1437.8	1435.6	1429.7
5°	1442.8	1429.3	1434.0	1429.0	1429.0
7.5°	1433.0	1418.2	1422.9	1417.9	1417.6
10°	1423.9	1409.1	1413.8	1408.8	1407.5
12.5°	1410.8	1396.0	1401.7	1395.7	1395.4
15°	1387.4	1373.8	1379.8	1374.7	1372.3
17.5°	1360.9	1346.1	1353.4	1346.3	1345.3
20°	1340.8	1326.0	1333.2	1323.1	1323.1
22.5°	1316.6	1301.8	1310.0	1296.9	1296.9
25°	1277.8	1263.0	1268.9	1257.6	1256.3
27.5°	1231.6	1217.1	1223.3	1210.5	1210.2
30°	1198.4	1184.8	1192.1	1178.2	1176.9
32.5°	1162.1	1149.5	1154.8	1140.9	1139.6
35°	1103.9	1092.8	1096.3	1083.7	1082.4
37.5°	1042.6	1031.3	1035.3	1024.5	1024.0
40°	999.3	991.9	993.0	984.1	981.6
42.5°	958.9	950.6	951.6	942.8	942.3
45°	897.2	891.0	890.9	882.1	882.1
47.5°	831.7	827.0	825.6	818.3	818.1
50°	786.3	782.6	781.3	774.9	773.7
52.5°	738.9	737.2	732.9	727.6	727.3
55°	665.3	662.9	656.5	652.7	651.5
57.5°	585.4	580.5	573.4	567.8	568.8
60°	528.0	523.1	512.9	510.3	510.3
62.5°	472.5	466.6	456.4	452.9	454.9
65°	393.2	385.8	376.8	374.3	375.5
67.5°	321.1	314.4	304.7	304.7	303.7
70°	274.7	271.0	263.4	263.4	263.4
72.5°	233.4	231.6	226.1	226.0	225.1
75°	178.9	178.9	176.4	175.1	173.9
77.5°	134.1	134.6	133.3	132.0	129.8
80°	105.8	108.3	107.1	105.8	104.6
82.5°	79.6	82.1	81.9	79.6	79.4
85°	41.6	45.3	45.4	45.4	45.4
87.5°	11.4	16.1	19.0	17.6	18.6
90°	1.8	5.3	14.4	7.2	7.2
92.5°	7.6	36.5	80.8	35.8	23.1
95°	18.0	70.9	236.2	121.7	83.0
97.5°	31.4	77.9	353.5	281.1	207.0
100°	41.5	83.8	389.5	394.7	306.6
102.5°	50.1	89.6	399.6	491.7	416.2
105°	64.9	98.4	398.5	605.0	564.5
107.5°	80.1	111.1	375.8	663.9	673.7
110°	90.2	118.4	357.1	679.0	721.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	100.3	127.1	339.8	669.4	734.3
115°	115.4	140.1	319.2	636.8	726.8
117.5°	130.2	152.8	305.1	591.6	691.4
120°	138.9	160.0	299.4	561.3	658.2
122.5°	147.5	168.7	295.0	530.9	626.5
125°	160.5	179.9	290.3	490.7	578.9
127.5°	171.0	190.7	286.4	458.3	532.7
130°	176.7	197.9	284.9	438.0	506.7
132.5°	182.5	203.7	283.5	420.5	482.2
135°	191.2	210.6	281.3	396.1	449.0
137.5°	200.2	219.2	281.0	377.9	421.3
140°	207.4	225.0	279.5	363.4	404.0
142.5°	213.2	229.4	279.5	353.2	388.1
145°	221.8	235.9	277.7	337.8	364.3
147.5°	230.5	244.2	277.7	325.1	347.0
150°	236.2	248.6	277.7	317.8	335.4
152.5°	242.0	251.5	277.7	311.9	325.3
155°	250.7	257.7	277.7	305.0	313.8
157.5°	257.2	263.9	277.7	298.8	305.1
160°	261.5	266.8	277.7	295.8	299.4
162.5°	265.8	269.7	277.7	292.9	296.5
165°	270.5	274.0	277.7	288.6	292.1
167.5°	274.8	276.6	279.5	286.8	288.2
170°	277.7	279.5	279.5	286.7	286.7
172.5°	279.2	279.5	279.5	285.3	283.9
175°	281.3	281.3	279.5	283.1	283.1
177.5°	281.3	281.3	279.9	282.7	281.3
180°	281.3	281.3	281.3	281.3	281.3

(END OF REPORT)