

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P844835

Luminaire Tested: **SQ4P-BB-075U-075D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844835
REPORT IS A COMBINATION OF REPORTS P700216 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-BB-075U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

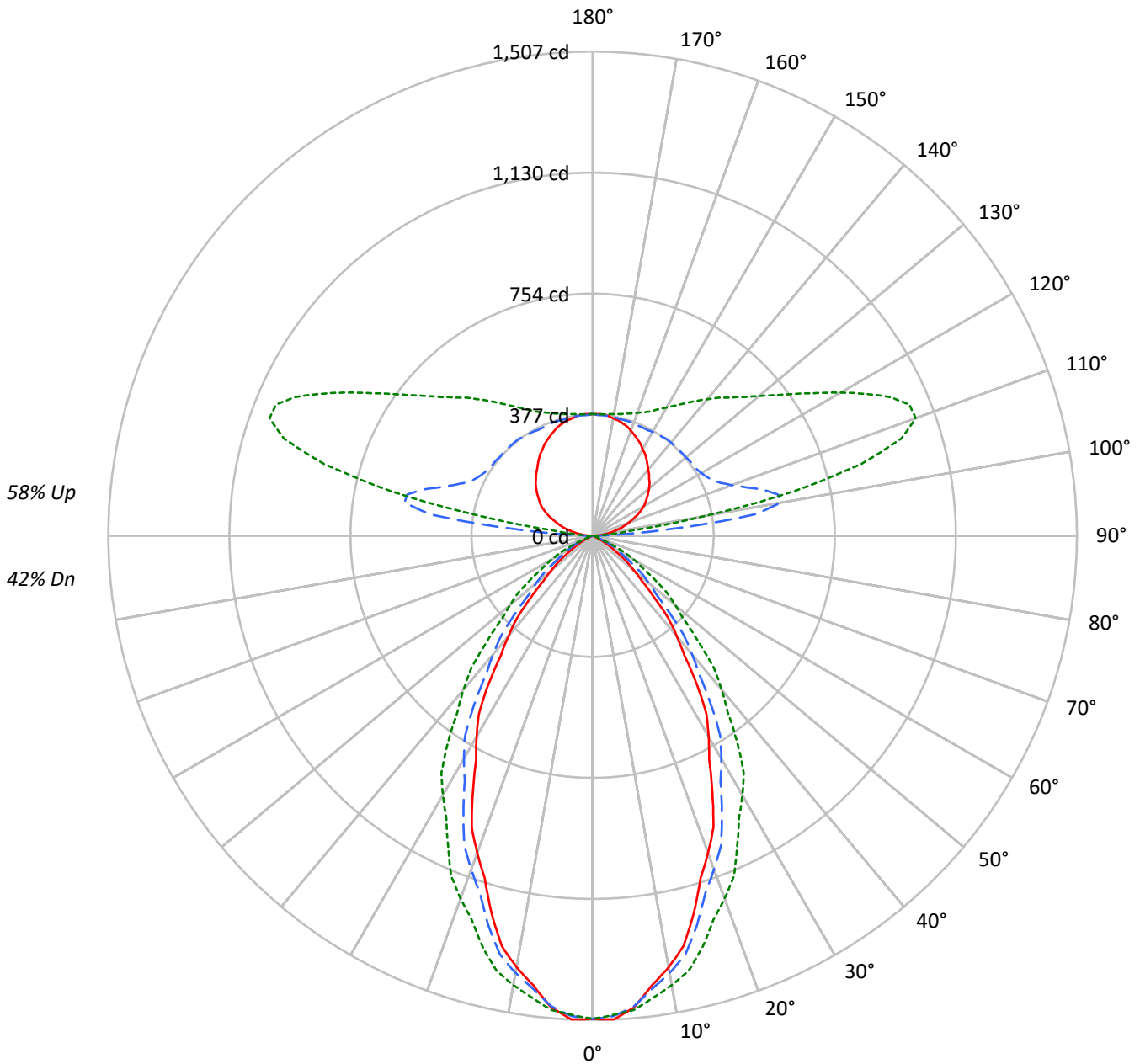
Lumens per Lamp: N/A
Luminaire Lumens: 4255.1 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 44.6
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42																			
1	98	94	91	88	89	86	83	81	71	70	68	58	57	56	46	45	44	39																			
2	90	84	78	74	82	77	73	69	64	61	59	53	51	49	42	41	40	35																			
3	83	75	69	64	76	69	64	59	58	54	51	48	45	43	39	37	36	31																			
4	77	67	61	55	70	62	56	52	53	48	45	44	41	38	36	34	32	28																			
5	71	61	54	48	65	56	50	46	48	43	40	40	37	34	33	31	29	26																			
6	66	55	48	43	61	51	45	40	44	39	36	37	34	31	31	28	26	24																			
7	62	50	43	38	57	47	41	36	40	36	32	34	31	28	28	26	24	22																			
8	57	46	39	34	53	43	37	33	37	32	29	32	28	26	26	24	22	20																			
9	54	43	36	31	49	40	34	30	34	30	26	29	26	23	25	22	20	18																			
10	50	39	33	28	46	37	31	27	32	27	24	27	24	22	23	21	19	17																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13873	13873	13873
5°	13650	13616	13718
10°	12770	12942	13303
15°	11611	11979	12646
20°	10307	10842	11792
25°	8975	9686	10835
30°	7689	8533	9928
35°	6374	7243	8831
40°	4897	5792	7525
45°	3542	4385	6055
50°	2411	3267	4804
55°	1568	2363	3732
60°	899	1664	2700
65°	238	1017	1367
70°	119	313	391
75°	53	25	0
80°	37	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	3.2
10°-20°	350.9	8.2
20°-30°	439.3	10.3
30°-40°	405.8	9.5
40°-50°	272.7	6.4
50°-60°	140.8	3.3
60°-70°	44.1	1.0
70°-80°	2.8	0.1
80°-90°	1.0	0.0
90°-100°	150.9	3.5
100°-110°	525.0	12.3
110°-120°	508.6	12.0
120°-130°	398.9	9.4
130°-140°	315.7	7.4
140°-150°	243.7	5.7
150°-160°	174.7	4.1
160°-170°	106.8	2.5
170°-180°	36.1	0.8
0°-30°	927.5	21.8
0°-40°	1333.3	31.3
0°-60°	1746.8	41.1
0°-90°	1794.6	42.2
90°-120°	1184.4	27.8
90°-150°	2142.8	50.4
90°-180°	2460.0	57.8
0°-180°	4255.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1474	1459	1470	1475	1481	137
15°	1216	1211	1254	1296	1324	339
25°	882	889	952	1017	1064	404
35°	566	580	643	719	784	351
45°	272	288	336	402	464	213
55°	98	114	147	189	232	91
65°	11	21	47	56	63	18
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	6	8	8	6	3	4
95°	25	88	255	65	40	27
105°	88	124	552	931	866	92
115°	153	184	410	866	1021	151
125°	207	255	382	645	770	185
135°	249	280	379	538	608	193
145°	291	311	376	464	504	182
155°	331	342	371	413	427	153
165°	362	365	373	390	393	102
175°	379	379	376	382	379	36
180°	379	379	379	379	379	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1503.7	1503.7	1503.7	1503.7	1503.7
2.5°	1507.1	1493.0	1496.6	1496.6	1492.6
5°	1473.8	1458.8	1470.2	1475.4	1481.2
7.5°	1411.6	1399.9	1421.7	1437.8	1449.6
10°	1363.1	1353.3	1381.4	1403.6	1420.0
12.5°	1307.4	1299.6	1333.7	1364.2	1385.1
15°	1215.6	1211.4	1254.1	1296.1	1324.0
17.5°	1117.3	1117.1	1165.9	1218.2	1251.7
20°	1049.8	1052.0	1104.3	1161.9	1201.0
22.5°	982.3	987.2	1043.2	1103.3	1148.1
25°	881.6	888.7	951.5	1016.6	1064.3
27.5°	785.1	795.5	861.5	929.1	987.2
30°	721.7	733.7	801.0	872.1	931.9
32.5°	659.3	673.7	739.1	814.6	875.3
35°	565.9	580.2	643.1	718.8	784.1
37.5°	469.5	483.4	544.8	619.4	690.1
40°	406.6	422.3	480.9	553.1	624.8
42.5°	349.6	365.3	420.3	491.2	559.2
45°	271.5	287.7	336.1	401.5	464.1
47.5°	206.6	224.2	266.7	326.0	382.9
50°	168.0	185.7	227.6	279.8	334.7
52.5°	137.2	154.5	192.2	241.3	291.5
55°	97.5	113.8	146.9	188.8	232.0
57.5°	67.3	81.5	111.2	145.9	180.1
60°	48.7	62.2	90.2	118.4	146.3
62.5°	32.5	44.8	72.1	93.8	112.5
65°	10.9	20.9	46.6	56.2	62.6
67.5°	5.6	6.6	24.4	25.8	28.0
70°	4.4	4.4	11.6	12.3	14.5
72.5°	3.1	3.1	4.6	6.0	6.5
75°	1.5	1.5	0.7	0.0	0.0
77.5°	0.7	0.7	0.7	0.0	0.0
80°	0.7	0.7	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	5.7	8.5	8.5	5.7	2.8
92.5°	14.2	42.5	39.6	16.9	14.2
95°	25.4	87.7	254.6	65.1	39.6
97.5°	39.6	99.0	509.2	232.0	124.5
100°	53.7	104.7	594.1	557.4	359.3
102.5°	70.8	113.1	591.3	783.7	645.1
105°	87.7	124.5	551.7	930.8	865.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.8	166.9	430.1	936.5	1066.6
115°	152.8	183.9	410.2	865.7	1021.3
117.5°	169.8	203.7	399.0	800.7	956.3
120°	183.9	220.7	390.4	738.4	891.2
122.5°	195.2	237.7	384.8	687.5	826.1
125°	206.6	254.6	381.9	645.1	769.5
127.5°	217.8	266.0	381.9	614.0	718.7
130°	229.2	271.6	379.1	582.8	676.2
132.5°	240.4	274.4	379.1	560.2	639.4
135°	248.9	280.1	379.1	537.5	608.3
137.5°	260.3	285.7	379.1	517.8	582.8
140°	268.8	294.3	379.1	497.9	554.6
142.5°	280.1	302.8	379.1	478.1	529.0
145°	291.4	311.2	376.3	464.0	503.6
147.5°	302.8	319.7	373.4	449.8	481.0
150°	311.2	328.2	373.4	435.7	461.2
152.5°	322.5	336.6	370.6	421.6	444.2
155°	331.0	342.3	370.6	413.1	427.2
157.5°	339.5	350.8	370.6	404.5	415.9
160°	348.0	356.5	373.4	399.0	407.4
162.5°	356.5	362.2	373.4	393.3	399.0
165°	362.2	365.0	373.4	390.4	393.3
167.5°	367.8	370.6	373.4	387.6	387.6
170°	370.6	373.4	376.3	384.8	384.8
172.5°	376.3	376.3	376.3	381.9	381.9
175°	379.1	379.1	376.3	381.9	379.1
177.5°	379.1	379.1	376.3	381.9	379.1
180°	379.1	379.1	379.1	379.1	379.1



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	104.7	138.7	500.7	995.9	1007.2
110°	118.8	152.8	461.2	987.4	1069.5



(END OF REPORT)