

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: P845337

Luminaire Tested: **SQ4P-WB-075U-050D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845337
REPORT IS A COMBINATION OF REPORTS P700239 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-075U-050D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

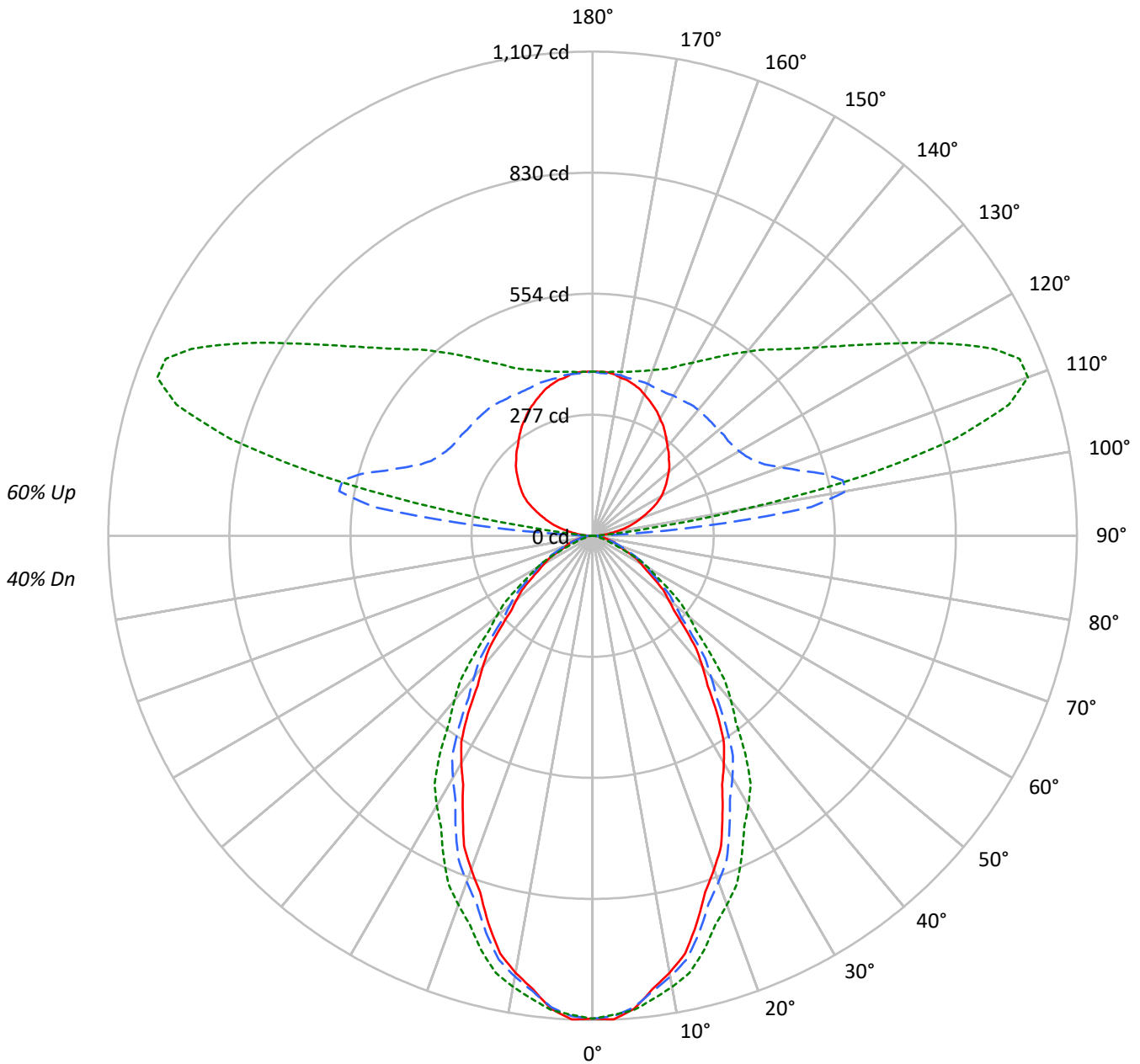
Lumens per Lamp: N/A
Luminaire Lumens: 4046.1 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 35.8
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	95	95	95	95	78	78	78	62	62	62	47	47	47	40																			
1	96	92	89	86	88	84	81	79	69	67	65	55	54	53	43	42	41	35																			
2	89	82	76	72	80	75	70	66	62	59	56	50	48	46	39	37	36	31																			
3	81	73	66	61	74	67	61	56	55	51	48	45	42	40	35	33	32	28																			
4	75	65	58	52	68	60	54	49	50	45	42	41	37	35	32	30	28	25																			
5	69	58	51	45	63	54	47	42	45	40	37	37	34	31	29	27	25	22																			
6	64	53	45	40	58	49	42	37	41	36	32	34	30	28	27	25	23	20																			
7	59	48	41	35	54	44	38	33	37	33	29	31	27	25	25	23	21	18																			
8	55	44	36	32	50	41	34	30	34	30	26	29	25	22	23	21	19	16																			
9	52	40	33	28	47	37	31	27	32	27	24	27	23	20	22	19	17	15																			
10	48	37	30	26	44	34	28	24	29	25	21	25	21	19	20	18	16	14																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10186	10186	10186
5°	10058	10023	10081
10°	9503	9589	9812
15°	8772	8977	9379
20°	7967	8265	8812
25°	7145	7535	8211
30°	6390	6807	7585
35°	5587	5990	6848
40°	4701	5075	5928
45°	3880	4216	4949
50°	3240	3531	4122
55°	2749	3030	3404
60°	2351	2629	2718
65°	1873	2209	1753
70°	1659	1726	1071
75°	1536	1397	656
80°	1413	1286	569
85°	1270	1175	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	2.5
10°-20°	263.4	6.5
20°-30°	341.1	8.4
30°-40°	334.1	8.3
40°-50°	255.7	6.3
50°-60°	170.4	4.2
60°-70°	93.0	2.3
70°-80°	38.7	1.0
80°-90°	11.9	0.3
90°-100°	149.4	3.7
100°-110°	519.9	12.8
110°-120°	503.6	12.4
120°-130°	395.1	9.8
130°-140°	312.7	7.7
140°-150°	241.3	6.0
150°-160°	173.0	4.3
160°-170°	105.8	2.6
170°-180°	35.8	0.9
0°-30°	705.8	17.4
0°-40°	1039.8	25.7
0°-60°	1465.9	36.2
0°-90°	1609.5	39.8
90°-120°	1172.9	29.0
90°-150°	2122.0	52.4
90°-180°	2437.0	60.2
0°-180°	4046.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1086	1075	1082	1085	1088	101
15°	918	915	940	965	982	256
25°	702	704	740	772	807	323
35°	496	498	532	568	608	308
45°	297	303	323	348	379	232
55°	171	178	188	196	212	155
65°	86	93	101	88	80	89
75°	43	43	39	27	18	46
85°	12	12	11	7	4	13
90°	6	8	8	6	3	4
95°	25	87	252	64	39	27
105°	87	123	546	922	857	91
115°	151	182	406	857	1011	149
125°	205	252	378	639	762	183
135°	246	277	375	532	602	191
145°	289	308	373	460	499	181
155°	328	339	367	409	423	151
165°	359	362	370	387	390	101
175°	375	375	373	378	375	36
180°	375	375	375	375	375	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.0	1104.0	1104.0	1104.0	1104.0
2.5°	1106.7	1096.8	1099.3	1099.2	1096.1
5°	1086.0	1075.1	1082.2	1084.7	1088.5
7.5°	1045.7	1037.5	1050.3	1059.8	1067.4
10°	1014.3	1007.2	1023.5	1037.4	1047.3
12.5°	978.0	971.9	992.2	1010.6	1023.6
15°	918.4	915.1	939.8	965.3	981.9
17.5°	854.8	853.2	881.5	911.3	932.4
20°	811.4	810.9	841.8	873.0	897.5
22.5°	767.6	768.6	801.1	833.5	861.6
25°	701.9	703.8	740.2	772.4	806.6
27.5°	641.1	642.0	679.5	713.6	750.1
30°	599.8	602.0	638.9	674.2	712.0
32.5°	558.3	561.0	597.1	633.5	672.1
35°	496.0	498.4	531.8	567.7	608.0
37.5°	431.8	435.1	464.9	498.6	538.3
40°	390.3	395.2	421.4	453.3	492.2
42.5°	350.5	356.4	380.7	411.0	446.0
45°	297.4	303.1	323.1	347.5	379.3
47.5°	251.7	258.3	273.6	294.7	321.7
50°	225.7	231.9	246.0	261.6	287.2
52.5°	202.8	209.0	221.6	233.6	255.5
55°	170.9	178.1	188.4	195.7	211.6
57.5°	144.9	151.7	159.9	163.1	172.8
60°	127.4	135.0	142.5	142.0	147.3
62.5°	111.5	118.0	125.3	120.2	120.6
65°	85.8	92.8	101.2	88.5	80.3
67.5°	69.3	70.7	79.4	61.7	52.1
70°	61.5	61.5	64.0	47.8	39.7
72.5°	54.2	54.2	51.9	38.9	30.3
75°	43.1	43.1	39.2	26.9	18.4
77.5°	33.2	32.9	30.0	20.1	13.4
80°	26.6	26.6	24.2	15.9	10.7
82.5°	20.8	20.8	18.8	12.4	7.8
85°	12.0	12.0	11.1	7.3	4.4
87.5°	4.3	4.3	3.9	2.3	1.9
90°	5.6	8.4	8.4	5.6	2.8
92.5°	14.1	42.1	39.2	16.8	14.1
95°	25.2	86.8	252.2	64.4	39.2
97.5°	39.2	98.1	504.3	229.8	123.3
100°	53.2	103.7	588.3	552.0	355.8
102.5°	70.1	112.0	585.6	776.1	638.8
105°	86.8	123.3	546.4	921.8	857.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	134.5	165.3	425.9	927.4	1056.3
115°	151.3	182.1	406.2	857.3	1011.4
117.5°	168.1	201.8	395.1	792.9	947.0
120°	182.1	218.5	386.7	731.3	882.5
122.5°	193.3	235.4	381.0	680.9	818.1
125°	204.6	252.2	378.2	638.8	762.1
127.5°	215.7	263.4	378.2	608.0	711.7
130°	227.0	269.0	375.4	577.2	669.6
132.5°	238.1	271.7	375.4	554.8	633.2
135°	246.5	277.3	375.4	532.3	602.4
137.5°	257.8	283.0	375.4	512.7	577.2
140°	266.2	291.4	375.4	493.1	549.2
142.5°	277.3	299.8	375.4	473.5	523.9
145°	288.6	308.2	372.6	459.5	498.7
147.5°	299.8	316.6	369.8	445.5	476.3
150°	308.2	325.0	369.8	431.4	456.7
152.5°	319.4	333.4	367.0	417.5	439.9
155°	327.8	339.0	367.0	409.0	423.1
157.5°	336.2	347.4	367.0	400.6	411.9
160°	344.6	353.0	369.8	395.1	403.4
162.5°	353.0	358.7	369.8	389.5	395.1
165°	358.7	361.5	369.8	386.7	389.5
167.5°	364.3	367.0	369.8	383.8	383.8
170°	367.0	369.8	372.6	381.0	381.0
172.5°	372.6	372.6	372.6	378.2	378.2
175°	375.4	375.4	372.6	378.2	375.4
177.5°	375.4	375.4	372.6	378.2	375.4
180°	375.4	375.4	375.4	375.4	375.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	103.7	137.3	495.9	986.2	997.5
110°	117.6	151.3	456.7	977.8	1059.1



(END OF REPORT)