

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: P845339

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

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845339
REPORT IS A COMBINATION OF REPORTS P700240 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-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

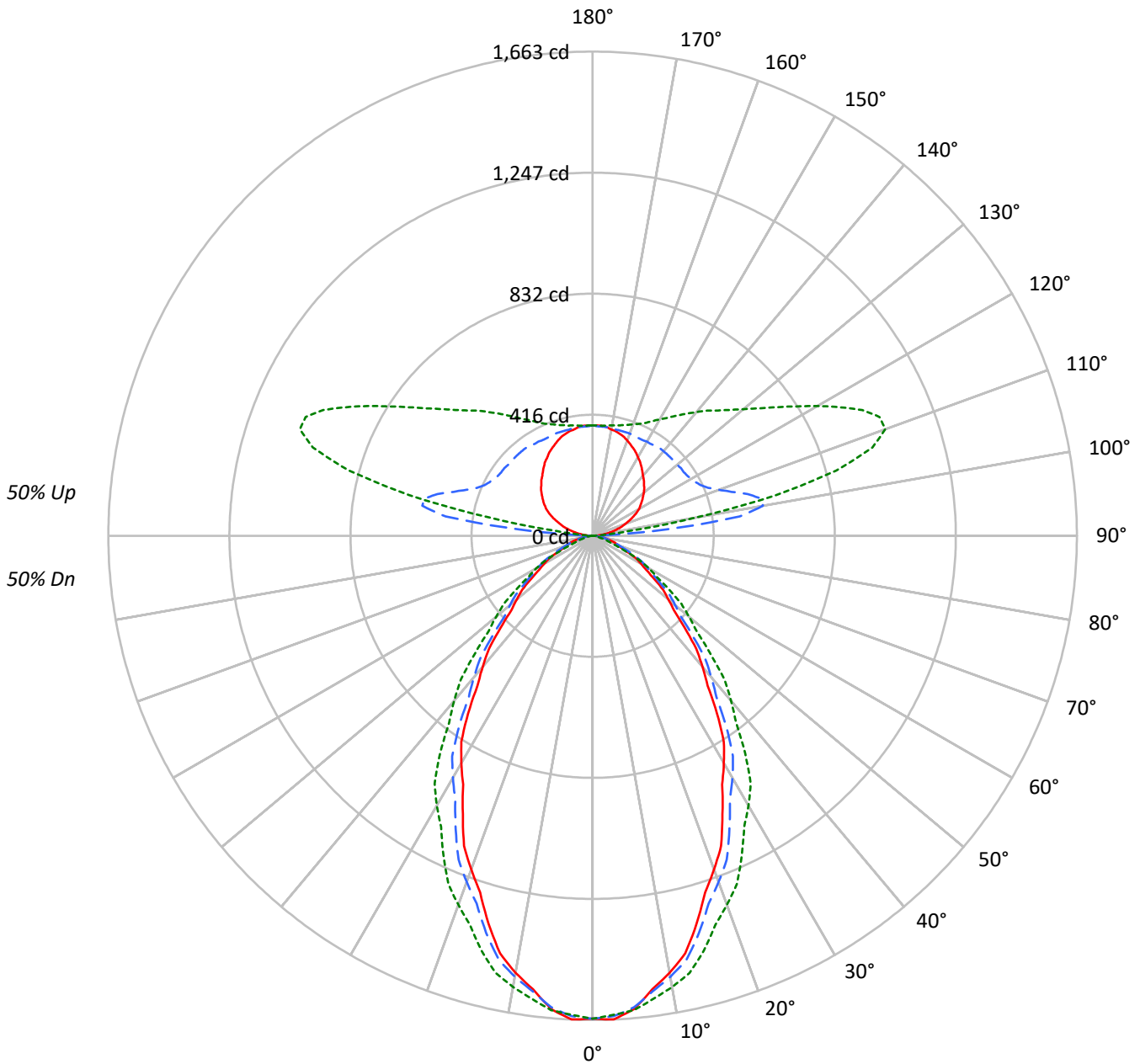
Lumens per Lamp: N/A
Luminaire Lumens: 4878.4 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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					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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50								
1	99	95	91	88	91	88	85	82	74	72	70	62	61	60	51	50	49	44								
2	91	84	79	74	84	78	73	69	67	63	60	56	54	52	46	45	43	39								
3	84	75	68	63	77	70	64	59	60	56	52	51	48	45	42	40	38	34								
4	77	67	60	55	71	63	56	52	54	49	46	46	43	40	38	36	34	31								
5	71	61	53	48	66	57	50	45	49	44	40	42	38	35	35	33	31	27								
6	66	55	47	42	61	51	45	40	45	40	36	38	35	32	33	30	28	25								
7	62	50	43	37	57	47	40	36	41	36	32	35	31	28	30	27	25	22								
8	57	46	39	34	53	43	37	32	38	33	29	33	29	26	28	25	23	21								
9	54	42	35	30	50	40	33	29	35	30	26	30	26	24	26	23	21	19								
10	50	39	32	28	47	37	30	26	32	27	24	28	24	22	24	21	19	17								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15304	15304	15304
5°	15114	15058	15147
10°	14279	14408	14741
15°	13180	13488	14092
20°	11970	12419	13241
25°	10737	11321	12337
30°	9600	10227	11398
35°	8394	9000	10289
40°	7065	7626	8907
45°	5830	6333	7436
50°	4867	5306	6194
55°	4132	4554	5115
60°	3534	3949	4084
65°	2814	3321	2637
70°	2495	2592	1610
75°	2310	2103	987
80°	2125	1934	850
85°	1916	1778	699



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	3.1
10°-20°	395.7	8.1
20°-30°	512.6	10.5
30°-40°	502.0	10.3
40°-50°	384.2	7.9
50°-60°	256.0	5.2
60°-70°	139.7	2.9
70°-80°	58.2	1.2
80°-90°	17.4	0.4
90°-100°	150.9	3.1
100°-110°	525.0	10.8
110°-120°	508.6	10.4
120°-130°	398.9	8.2
130°-140°	315.7	6.5
140°-150°	243.7	5.0
150°-160°	174.7	3.6
160°-170°	106.8	2.2
170°-180°	36.1	0.7
0°-30°	1060.5	21.7
0°-40°	1562.4	32.0
0°-60°	2202.6	45.2
0°-90°	2418.0	49.6
90°-120°	1184.4	24.3
90°-150°	2142.8	43.9
90°-180°	2460.0	50.4
0°-180°	4878.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1659	1659	1659	1659	1659	
5°	1632	1615	1626	1630	1636	152
15°	1380	1375	1412	1450	1475	385
25°	1055	1057	1112	1161	1212	485
35°	745	749	799	853	914	463
45°	447	455	485	522	570	348
55°	257	268	283	294	318	233
65°	129	140	152	133	121	134
75°	65	65	59	40	28	69
85°	18	18	17	11	7	20
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°	1658.7	1658.7	1658.7	1658.7	1658.7
2.5°	1662.8	1648.0	1651.8	1651.6	1647.0
5°	1631.9	1615.3	1625.9	1629.7	1635.5
7.5°	1571.2	1558.9	1578.1	1592.3	1603.9
10°	1524.1	1513.4	1537.9	1558.7	1573.5
12.5°	1469.4	1460.3	1490.8	1518.4	1538.1
15°	1379.9	1375.0	1412.1	1450.4	1475.3
17.5°	1284.4	1281.9	1324.4	1369.2	1401.0
20°	1219.1	1218.4	1264.9	1311.7	1348.6
22.5°	1153.3	1154.8	1203.7	1252.4	1294.5
25°	1054.7	1057.4	1112.1	1160.6	1211.9
27.5°	963.4	964.7	1021.0	1072.3	1127.0
30°	901.1	904.6	960.0	1013.0	1069.9
32.5°	838.8	842.9	897.1	951.9	1009.9
35°	745.3	748.9	799.1	853.0	913.5
37.5°	648.9	653.8	698.4	749.2	808.9
40°	586.6	593.8	633.2	681.2	739.5
42.5°	526.6	535.5	572.1	617.6	670.1
45°	446.8	455.4	485.4	522.2	569.9
47.5°	378.1	388.0	411.1	442.7	483.4
50°	339.1	348.5	369.7	393.1	431.5
52.5°	304.8	314.0	333.0	351.1	383.9
55°	256.9	267.5	283.1	294.0	318.0
57.5°	217.6	227.9	240.2	245.0	259.7
60°	191.5	202.9	214.0	213.3	221.3
62.5°	167.5	177.3	188.4	180.5	181.0
65°	128.9	139.5	152.1	133.0	120.8
67.5°	104.1	106.3	119.3	92.8	78.3
70°	92.5	92.5	96.1	71.8	59.7
72.5°	81.4	81.4	78.1	58.3	45.6
75°	64.8	64.8	59.0	40.5	27.7
77.5°	49.9	49.4	45.1	30.1	20.1
80°	40.0	40.0	36.4	23.9	16.0
82.5°	31.3	31.3	28.2	18.6	11.8
85°	18.1	18.1	16.8	10.9	6.6
87.5°	6.5	6.5	5.8	3.4	2.9
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)