

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: P234611

Luminaire Tested: **CTA-F-5050-30L840-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234611  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-6)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-5050-30L840-UNV-12  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
3000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT  
Light Source: (1008) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

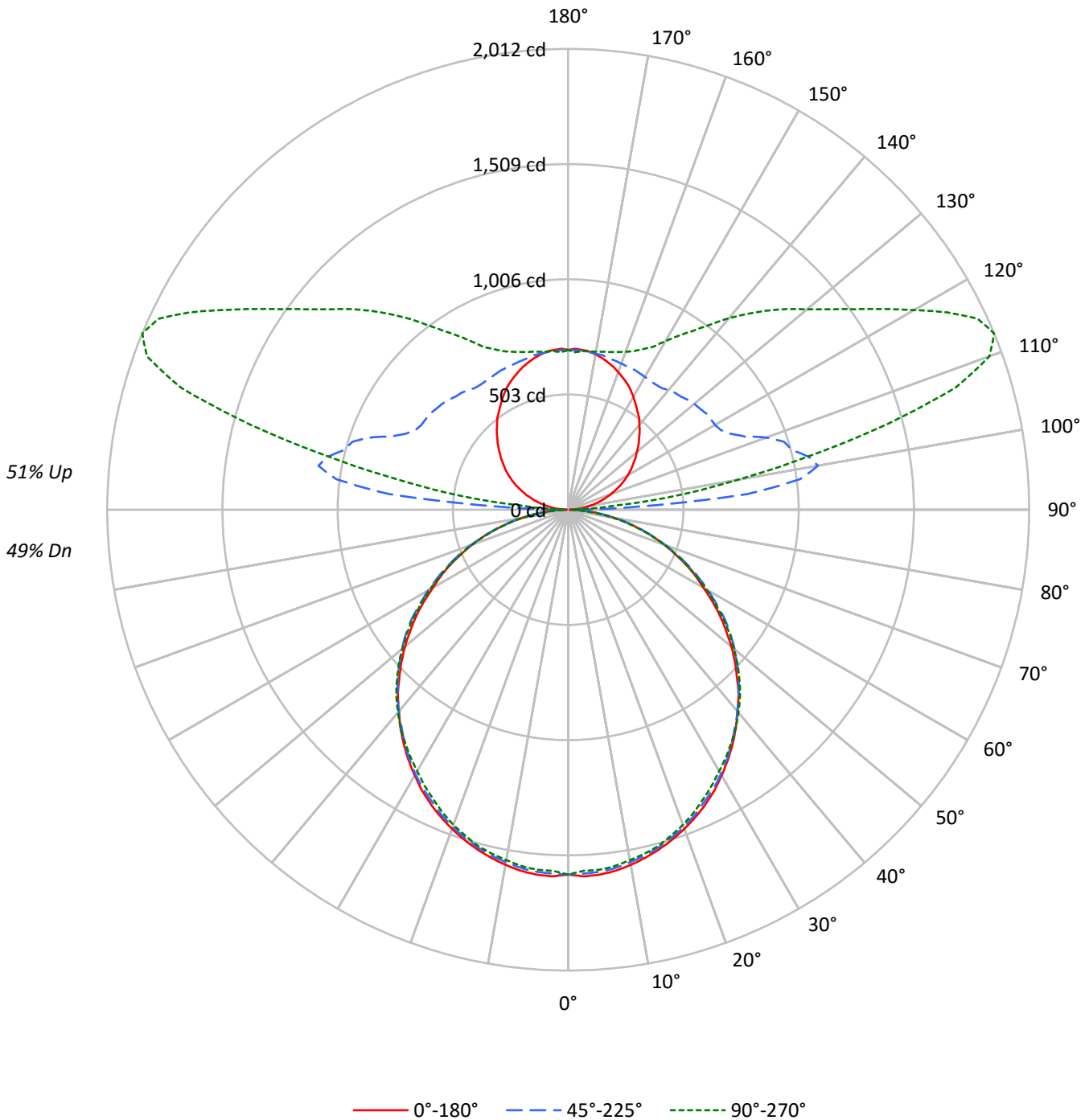
Lumens per Lamp: N/A  
Luminaire Lumens: 9232.4 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.37  
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 77.5  
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: 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	49				
1	97	93	89	85	90	86	82	79	72	70	68	60	58	57	49	48	46	41				
2	88	81	75	69	81	75	69	65	63	59	56	52	50	47	43	41	39	34				
3	81	71	63	57	74	66	59	54	56	51	46	46	43	39	38	35	33	29				
4	74	63	55	48	67	58	51	45	49	44	39	41	37	34	33	30	28	24				
5	67	56	47	41	62	52	44	39	44	38	34	37	32	29	30	27	24	21				
6	62	50	42	36	57	46	39	34	39	34	29	33	29	25	27	24	21	18				
7	57	45	37	31	53	42	35	29	36	30	26	30	26	22	25	21	19	16				
8	53	41	33	28	49	38	31	26	33	27	23	27	23	20	23	19	17	14				
9	50	37	30	24	46	35	28	23	30	24	20	25	21	18	21	18	15	13				
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	19	16	14	12				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3429	3429	3429
5°	3456	3429	3409
10°	3442	3415	3395
15°	3421	3400	3387
20°	3397	3376	3355
25°	3370	3341	3312
30°	3329	3314	3276
35°	3286	3270	3262
40°	3231	3231	3248
45°	3174	3202	3221
50°	3113	3174	3164
55°	3041	3133	3098
60°	2936	3041	3002
65°	2881	2944	2912
70°	2810	2848	2810
75°	2671	2721	2671
80°	2502	2577	2426
85°	2191	2265	1964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.6	1.6
10°-20°	430.2	4.7
20°-30°	647.6	7.0
30°-40°	777.5	8.4
40°-50°	809.2	8.8
50°-60°	733.8	7.9
60°-70°	567.4	6.1
70°-80°	343.7	3.7
80°-90°	103.0	1.1
90°-100°	368.5	4.0
100°-110°	957.3	10.4
110°-120°	968.8	10.5
120°-130°	756.7	8.2
130°-140°	596.4	6.5
140°-150°	445.5	4.8
150°-160°	315.4	3.4
160°-170°	194.7	2.1
170°-180°	66.3	0.7
0°-30°	1228.3	13.3
0°-40°	2005.8	21.7
0°-60°	3548.8	38.4
0°-90°	4562.8	49.4
90°-120°	2294.5	24.9
90°-150°	4093.2	44.3
90°-180°	4670.0	50.6
0°-180°	9232.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1599	1584	1587	1581	1578	152
15°	1535	1523	1526	1526	1520	433
25°	1419	1404	1406	1400	1394	654
35°	1251	1238	1244	1241	1241	782
45°	1043	1037	1052	1058	1058	805
55°	810	810	835	829	826	722
65°	566	572	578	575	572	560
75°	321	327	327	324	321	341
85°	89	92	92	86	80	97
90°	6	12	12	12	12	10
95°	46	144	786	346	214	48
105°	147	260	1009	1666	1440	154
115°	251	327	783	1697	1972	247
125°	346	401	734	1284	1526	310
135°	437	480	697	1067	1229	338
145°	526	553	667	865	954	330
155°	608	618	676	737	774	280
165°	667	667	685	706	712	188
175°	700	694	697	697	694	67
180°	697	697	697	697	697	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1593.1	1593.1	1593.1	1593.1	1593.1
2.5°	1602.2	1590.0	1590.0	1586.9	1577.8
5°	1599.2	1583.9	1586.9	1580.8	1577.8
7.5°	1590.0	1574.7	1577.8	1571.7	1568.6
10°	1574.7	1559.4	1562.5	1559.4	1553.3
12.5°	1556.4	1544.1	1547.2	1544.1	1538.0
15°	1535.0	1522.7	1525.8	1525.8	1519.7
17.5°	1510.5	1498.3	1501.3	1501.3	1492.2
20°	1483.0	1470.8	1473.8	1470.8	1464.6
22.5°	1452.4	1440.2	1443.2	1437.1	1431.0
25°	1418.8	1403.5	1406.5	1400.4	1394.3
27.5°	1382.1	1366.8	1372.9	1363.7	1357.6
30°	1339.3	1327.0	1333.2	1320.9	1317.9
32.5°	1296.5	1284.2	1290.3	1281.2	1281.2
35°	1250.6	1238.4	1244.5	1241.4	1241.4
37.5°	1201.7	1192.5	1195.6	1198.6	1201.7
40°	1149.7	1143.6	1149.7	1152.8	1155.8
42.5°	1100.8	1091.6	1100.8	1106.9	1109.9
45°	1042.7	1036.6	1051.8	1058.0	1058.0
47.5°	987.6	984.6	999.9	1002.9	1002.9
50°	929.5	929.5	947.9	947.9	944.8
52.5°	868.4	871.4	892.8	889.8	886.7
55°	810.3	810.3	834.8	828.6	825.6
57.5°	746.1	746.1	767.5	761.4	758.3
60°	681.9	691.0	706.3	697.2	697.2
62.5°	626.8	629.9	642.1	636.0	632.9
65°	565.7	571.8	577.9	574.8	571.8
67.5°	504.5	513.7	516.8	510.6	507.6
70°	446.4	452.5	452.5	449.5	446.4
72.5°	385.3	391.4	388.3	385.3	382.2
75°	321.1	327.2	327.2	324.1	321.1
77.5°	263.0	266.0	266.0	263.0	256.8
80°	201.8	207.9	207.9	201.8	195.7
82.5°	146.8	149.8	146.8	143.7	137.6
85°	88.7	91.7	91.7	85.6	79.5
87.5°	39.8	42.8	36.7	33.6	30.6
90°	6.1	12.2	12.2	12.2	12.2
92.5°	24.5	91.7	290.5	82.6	52.0
95°	45.9	143.7	785.8	345.5	214.0
97.5°	70.3	177.3	1021.3	645.2	489.2
100°	94.8	226.3	1106.9	972.3	746.1
102.5°	119.3	250.7	1073.3	1345.4	1073.3
105°	146.8	259.9	1009.0	1666.4	1440.2
107.5°	171.2	266.0	987.6	1837.7	1773.5
110°	198.8	284.4	920.4	1874.4	1956.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	223.2	305.8	834.8	1816.3	2012.0
115°	250.7	327.2	782.8	1697.0	1972.2
117.5°	275.2	345.5	752.2	1568.6	1865.2
120°	299.7	366.9	740.0	1455.5	1742.9
122.5°	324.1	385.3	736.9	1363.7	1629.8
125°	345.5	400.6	733.8	1284.2	1525.8
127.5°	370.0	418.9	724.7	1223.1	1437.1
130°	391.4	437.3	718.6	1171.1	1360.7
132.5°	415.8	458.7	709.4	1119.1	1296.5
135°	437.3	480.1	697.2	1067.1	1229.2
137.5°	461.7	498.4	691.0	1012.1	1158.9
140°	483.1	516.8	681.9	960.1	1091.6
142.5°	507.6	535.1	669.6	905.1	1018.2
145°	525.9	553.4	666.6	865.3	954.0
147.5°	547.3	571.8	666.6	825.6	902.0
150°	568.7	587.1	669.6	779.7	850.0
152.5°	590.1	602.4	672.7	755.3	801.1
155°	608.5	617.7	675.8	736.9	773.6
157.5°	623.8	629.9	675.8	724.7	749.1
160°	639.1	645.2	678.8	718.6	733.8
162.5°	654.3	657.4	681.9	712.4	721.6
165°	666.6	666.6	684.9	706.3	712.4
167.5°	678.8	675.8	691.0	700.2	706.3
170°	688.0	684.9	691.0	700.2	700.2
172.5°	697.2	691.0	694.1	697.2	697.2
175°	700.2	694.1	697.2	697.2	694.1
177.5°	703.3	697.2	697.2	697.2	688.0
180°	697.2	697.2	697.2	697.2	697.2

(END OF REPORT)