

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: P234651

Luminaire Tested: **CTA-F-7525-40L840-UNV-12**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P234651  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-2)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CTA-F-7525-40L840-UNV-12  
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE  
4000 LUMENS, 75% UPLIGHT, 25% DOWNLIGHT  
Light Source: (1008) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

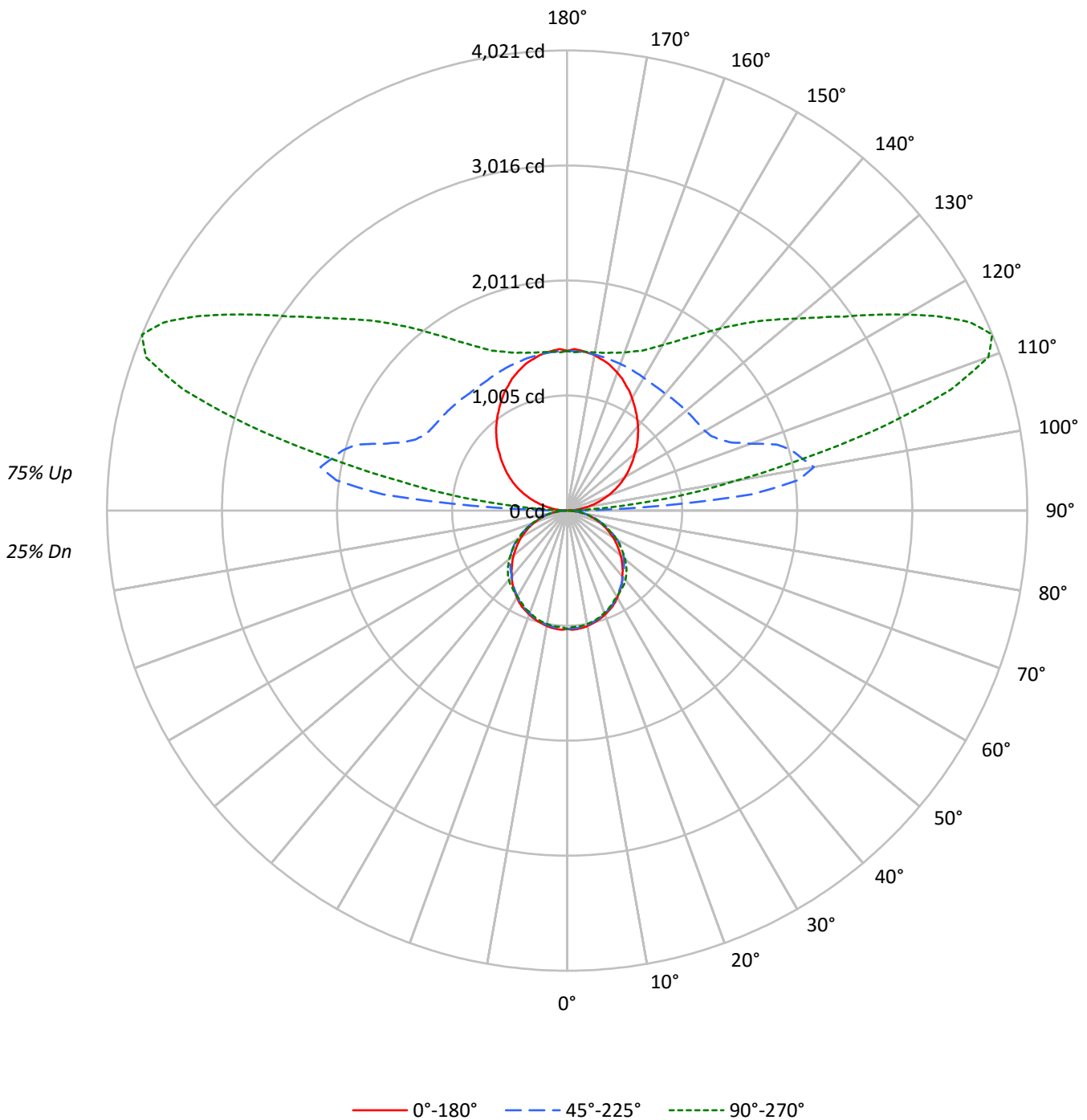
Lumens per Lamp: N/A  
Luminaire Lumens: 12210.2 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39  
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 83  
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	0
RCR																		
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33	25
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21
2	84	76	70	65	74	68	63	59	53	49	46	39	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	39	34	31	29	22	21	19	14
4	69	59	51	45	62	53	46	41	41	36	33	30	27	25	20	18	17	12
5	64	52	44	39	56	47	40	35	36	32	28	27	24	21	18	16	14	10
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	38	31	26	29	25	21	22	18	16	15	13	11	8
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9	6
10	43	31	24	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

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

	0°	45°	90°
0°	2225	2225	2225
5°	2246	2227	2200
10°	2239	2219	2199
15°	2228	2208	2194
20°	2213	2192	2178
25°	2208	2179	2164
30°	2181	2159	2159
35°	2154	2137	2186
40°	2105	2114	2225
45°	2076	2132	2234
50°	2048	2171	2212
55°	2008	2180	2169
60°	1975	2146	2132
65°	1947	2103	2072
70°	1905	2040	2021
75°	1856	1984	1958
80°	1820	1933	1895
85°	1662	1887	1736



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.6	0.8
10°-20°	279.2	2.3
20°-30°	422.5	3.5
30°-40°	512.5	4.2
40°-50°	543.0	4.4
50°-60°	503.3	4.1
60°-70°	398.5	3.3
70°-80°	249.0	2.0
80°-90°	84.5	0.7
90°-100°	740.6	6.1
100°-110°	1878.8	15.4
110°-120°	1875.9	15.4
120°-130°	1451.9	11.9
130°-140°	1146.7	9.4
140°-150°	873.9	7.2
150°-160°	630.0	5.2
160°-170°	389.6	3.2
170°-180°	132.7	1.1
0°-30°	799.4	6.5
0°-40°	1311.8	10.7
0°-60°	2358.1	19.3
0°-90°	3090.1	25.3
90°-120°	4495.3	36.8
90°-150°	7967.9	65.3
90°-180°	9120.0	74.7
0°-180°	12210.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1040	1027	1030	1024	1018	99
15°	1000	988	991	988	985	282
25°	930	917	917	914	911	427
35°	820	813	813	826	832	512
45°	682	679	700	728	734	527
55°	535	535	581	578	578	479
65°	382	398	413	407	407	378
75°	223	238	238	235	235	237
85°	67	76	76	76	70	73
90°	6	9	9	9	6	12
95°	76	278	1614	737	474	82
105°	275	440	2033	3308	2886	290
115°	483	602	1468	3318	3889	477
125°	676	783	1370	2461	2957	605
135°	871	951	1345	2015	2336	672
145°	1049	1101	1333	1666	1847	657
155°	1211	1232	1352	1471	1541	559
165°	1339	1333	1376	1413	1428	377
175°	1404	1388	1391	1391	1394	133
180°	1394	1394	1394	1394	1394	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1033.5	1033.5	1033.5	1033.5	1033.5
2.5°	1042.7	1030.4	1030.4	1027.4	1018.2
5°	1039.6	1027.4	1030.4	1024.3	1018.2
7.5°	1033.5	1021.3	1021.3	1018.2	1015.2
10°	1024.3	1015.2	1015.2	1012.1	1006.0
12.5°	1012.1	1002.9	1002.9	999.9	996.8
15°	999.9	987.6	990.7	987.6	984.6
17.5°	984.6	972.3	975.4	972.3	969.3
20°	966.2	957.1	957.1	954.0	950.9
22.5°	947.9	938.7	938.7	935.7	932.6
25°	929.5	917.3	917.3	914.2	911.2
27.5°	905.1	892.8	895.9	889.8	886.7
30°	877.6	868.4	868.4	862.3	868.4
32.5°	847.0	840.9	840.9	843.9	850.0
35°	819.5	813.3	813.3	825.6	831.7
37.5°	788.9	779.7	785.8	804.2	816.4
40°	749.1	743.0	752.2	782.8	791.9
42.5°	718.6	712.4	727.7	758.3	764.4
45°	681.9	678.8	700.2	727.7	733.8
47.5°	648.2	645.2	675.7	697.2	697.2
50°	611.5	608.5	648.2	660.5	660.5
52.5°	571.8	571.8	617.7	620.7	617.7
55°	535.1	535.1	581.0	577.9	577.9
57.5°	498.4	501.5	544.3	535.1	538.2
60°	458.7	467.8	498.4	492.3	495.3
62.5°	422.0	434.2	455.6	449.5	449.5
65°	382.2	397.5	412.8	406.7	406.7
67.5°	342.5	360.8	366.9	363.9	363.9
70°	302.7	324.1	324.1	321.1	321.1
72.5°	263.0	281.3	281.3	278.2	278.2
75°	223.2	238.5	238.5	235.4	235.4
77.5°	186.5	195.7	195.7	195.7	192.6
80°	146.8	152.9	155.9	152.9	152.9
82.5°	110.1	113.1	116.2	116.2	110.1
85°	67.3	76.4	76.4	76.4	70.3
87.5°	36.7	42.8	42.8	42.8	36.7
90°	6.1	9.2	9.2	9.2	6.1
92.5°	36.7	180.4	639.1	171.2	104.0
95°	76.4	278.2	1614.5	736.9	473.9
97.5°	122.3	330.2	2033.4	1299.5	993.7
100°	171.2	418.9	2189.3	1932.5	1486.0
102.5°	223.2	437.2	2103.7	2672.4	2137.3
105°	275.2	440.3	2033.4	3308.4	2886.5
107.5°	327.2	455.6	1920.2	3666.2	3516.3
110°	379.2	501.5	1706.2	3748.7	3916.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	431.1	553.4	1553.3	3583.6	4020.9
115°	483.1	602.4	1467.7	3317.6	3889.4
117.5°	532.0	648.2	1415.7	3045.5	3672.3
120°	581.0	694.1	1391.2	2813.1	3424.6
122.5°	629.9	736.9	1379.0	2620.4	3183.1
125°	675.7	782.8	1369.8	2461.4	2956.8
127.5°	724.7	825.6	1363.7	2336.1	2770.3
130°	770.5	868.4	1357.6	2219.9	2608.2
132.5°	825.6	911.2	1351.5	2115.9	2470.6
135°	871.4	950.9	1345.4	2015.0	2336.1
137.5°	917.3	990.7	1339.3	1917.2	2201.5
140°	963.2	1027.4	1333.2	1822.4	2076.2
142.5°	1006.0	1064.1	1333.2	1739.8	1953.9
145°	1048.8	1100.8	1333.2	1666.4	1846.8
147.5°	1091.6	1137.5	1333.2	1602.2	1749.0
150°	1134.4	1168.0	1339.3	1550.2	1669.5
152.5°	1177.2	1201.7	1345.4	1504.4	1599.2
155°	1210.8	1232.2	1351.5	1470.7	1541.1
157.5°	1250.6	1262.8	1357.6	1449.3	1504.4
160°	1281.2	1290.3	1363.7	1434.1	1470.7
162.5°	1311.7	1311.7	1366.8	1421.8	1446.3
165°	1339.3	1333.2	1376.0	1412.7	1427.9
167.5°	1357.6	1351.5	1379.0	1400.4	1412.7
170°	1379.0	1369.8	1385.1	1397.4	1403.5
172.5°	1391.2	1379.0	1388.2	1394.3	1397.4
175°	1403.5	1388.2	1391.2	1391.2	1394.3
177.5°	1412.7	1394.3	1394.3	1394.3	1385.1
180°	1394.3	1394.3	1394.3	1394.3	1394.3

(END OF REPORT)