

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: P234618

Luminaire Tested: **CTA-F-5050-40L835-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-40L835-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
4000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (1008) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

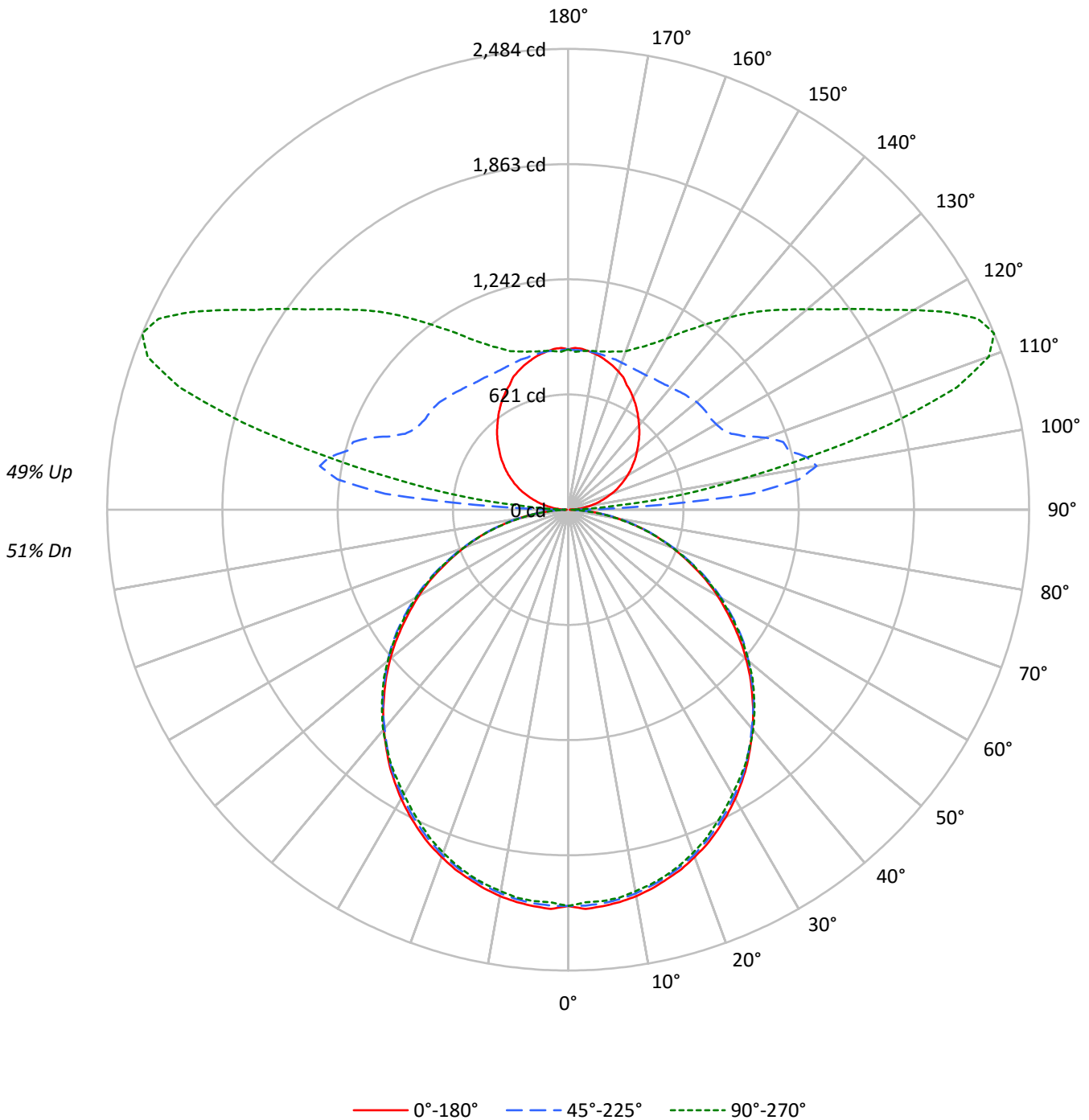
Lumens per Lamp: N/A
Luminaire Lumens: 11922.1 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 92.8
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	84	84	84	70	70	70	57	57	57	51				51
1	98	93	89	86	90	86	83	80	73	71	69	61	60	58	50	49	48	43				43
2	89	81	75	70	82	75	70	65	64	60	56	54	51	48	44	42	40	35				35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	39	36	34	30				30
4	74	63	55	49	68	58	51	46	50	44	40	42	38	34	35	31	29	25				25
5	68	56	48	42	62	52	45	39	44	39	34	38	33	30	31	28	25	22				22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	25	22	19				19
7	58	45	37	31	53	42	35	30	36	30	26	31	26	23	26	22	19	17				17
8	53	41	33	28	49	38	31	26	33	27	23	28	24	20	23	20	17	15				15
9	50	37	30	25	46	35	28	23	30	25	21	26	21	18	22	18	16	13				13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	17	14	12				12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4598	4598	4598
5°	4635	4603	4577
10°	4623	4590	4564
15°	4593	4566	4546
20°	4563	4536	4508
25°	4525	4489	4453
30°	4474	4437	4400
35°	4415	4391	4383
40°	4342	4325	4358
45°	4265	4302	4311
50°	4189	4250	4250
55°	4087	4200	4166
60°	4004	4107	4068
65°	3881	3988	3942
70°	3757	3814	3757
75°	3618	3643	3593
80°	3347	3384	3273
85°	2964	2964	2667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	1.7
10°-20°	577.5	4.8
20°-30°	869.3	7.3
30°-40°	1043.5	8.8
40°-50°	1085.1	9.1
50°-60°	987.3	8.3
60°-70°	765.5	6.4
70°-80°	461.6	3.9
80°-90°	138.4	1.2
90°-100°	463.9	3.9
100°-110°	1183.5	9.9
110°-120°	1196.7	10.0
120°-130°	935.9	7.9
130°-140°	739.9	6.2
140°-150°	555.9	4.7
150°-160°	392.4	3.3
160°-170°	241.1	2.0
170°-180°	82.1	0.7
0°-30°	1649.0	13.8
0°-40°	2692.5	22.6
0°-60°	4765.0	40.0
0°-90°	6130.5	51.4
90°-120°	2844.1	23.9
90°-150°	5075.9	42.6
90°-180°	5792.0	48.6
0°-180°	11922.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2136	2136	2136	2136	2136	
5°	2145	2124	2130	2124	2118	204
15°	2061	2043	2049	2046	2040	582
25°	1905	1884	1890	1881	1875	878
35°	1680	1665	1671	1665	1668	1050
45°	1401	1395	1413	1416	1416	1082
55°	1089	1092	1119	1107	1110	975
65°	762	771	783	774	774	755
75°	435	444	438	435	432	458
85°	120	126	120	117	108	129
90°	9	18	18	21	15	14
95°	57	177	990	444	282	60
105°	180	321	1230	2064	1812	191
115°	309	411	969	2091	2436	306
125°	426	504	912	1581	1887	382
135°	540	591	882	1317	1518	416
145°	648	681	846	1080	1197	406
155°	744	759	837	924	972	344
165°	825	825	849	873	882	233
175°	870	858	861	861	858	82
180°	864	864	864	864	864	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2136	2136	2136	2136	2136
2.5°	2154	2133	2136	2133	2118
5°	2145	2124	2130	2124	2118
7.5°	2133	2112	2118	2112	2109
10°	2115	2094	2100	2094	2088
12.5°	2091	2070	2076	2070	2067
15°	2061	2043	2049	2046	2040
17.5°	2031	2010	2016	2016	2007
20°	1992	1974	1980	1974	1968
22.5°	1953	1932	1938	1929	1926
25°	1905	1884	1890	1881	1875
27.5°	1854	1833	1839	1830	1824
30°	1800	1782	1785	1776	1770
32.5°	1740	1725	1731	1719	1719
35°	1680	1665	1671	1665	1668
37.5°	1611	1599	1605	1611	1608
40°	1545	1533	1539	1548	1551
42.5°	1476	1464	1476	1482	1485
45°	1401	1395	1413	1416	1416
47.5°	1329	1320	1338	1344	1347
50°	1251	1245	1269	1269	1269
52.5°	1173	1170	1197	1191	1191
55°	1089	1092	1119	1107	1110
57.5°	1008	1011	1035	1029	1026
60°	930	936	954	945	945
62.5°	849	855	867	861	858
65°	762	771	783	774	774
67.5°	678	690	690	687	684
70°	597	609	606	603	597
72.5°	516	528	519	519	516
75°	435	444	438	435	432
77.5°	351	360	357	351	345
80°	270	279	273	270	264
82.5°	195	201	198	192	186
85°	120	126	120	117	108
87.5°	51	57	51	45	39
90°	9	18	18	21	15
92.5°	33	120	384	111	72
95°	57	177	990	444	282
97.5°	90	216	1254	822	615
100°	117	279	1359	1224	930
102.5°	150	312	1314	1683	1350
105°	180	321	1230	2064	1812
107.5°	213	330	1215	2256	2196
110°	246	354	1134	2298	2412



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	279	381	1032	2238	2484
115°	309	411	969	2091	2436
117.5°	339	438	936	1926	2304
120°	369	459	921	1791	2151
122.5°	399	483	912	1668	2004
125°	426	504	912	1581	1887
127.5°	456	525	909	1506	1773
130°	483	546	903	1443	1680
132.5°	510	570	891	1380	1596
135°	540	591	882	1317	1518
137.5°	567	612	870	1254	1437
140°	594	636	861	1194	1353
142.5°	621	660	852	1134	1272
145°	648	681	846	1080	1197
147.5°	675	699	843	1029	1131
150°	699	720	837	987	1065
152.5°	723	738	837	954	1014
155°	744	759	837	924	972
157.5°	774	783	840	903	939
160°	792	798	843	888	909
162.5°	810	813	849	882	894
165°	825	825	849	873	882
167.5°	840	837	855	867	873
170°	852	846	858	867	867
172.5°	861	855	861	864	864
175°	870	858	861	861	858
177.5°	873	861	861	861	852
180°	864	864	864	864	864

(END OF REPORT)