

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: P234623

Luminaire Tested: **CTA-F-5050-50L835-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234623
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-8D)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-50L835-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
5000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (672) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10103.9 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: General Diffuse

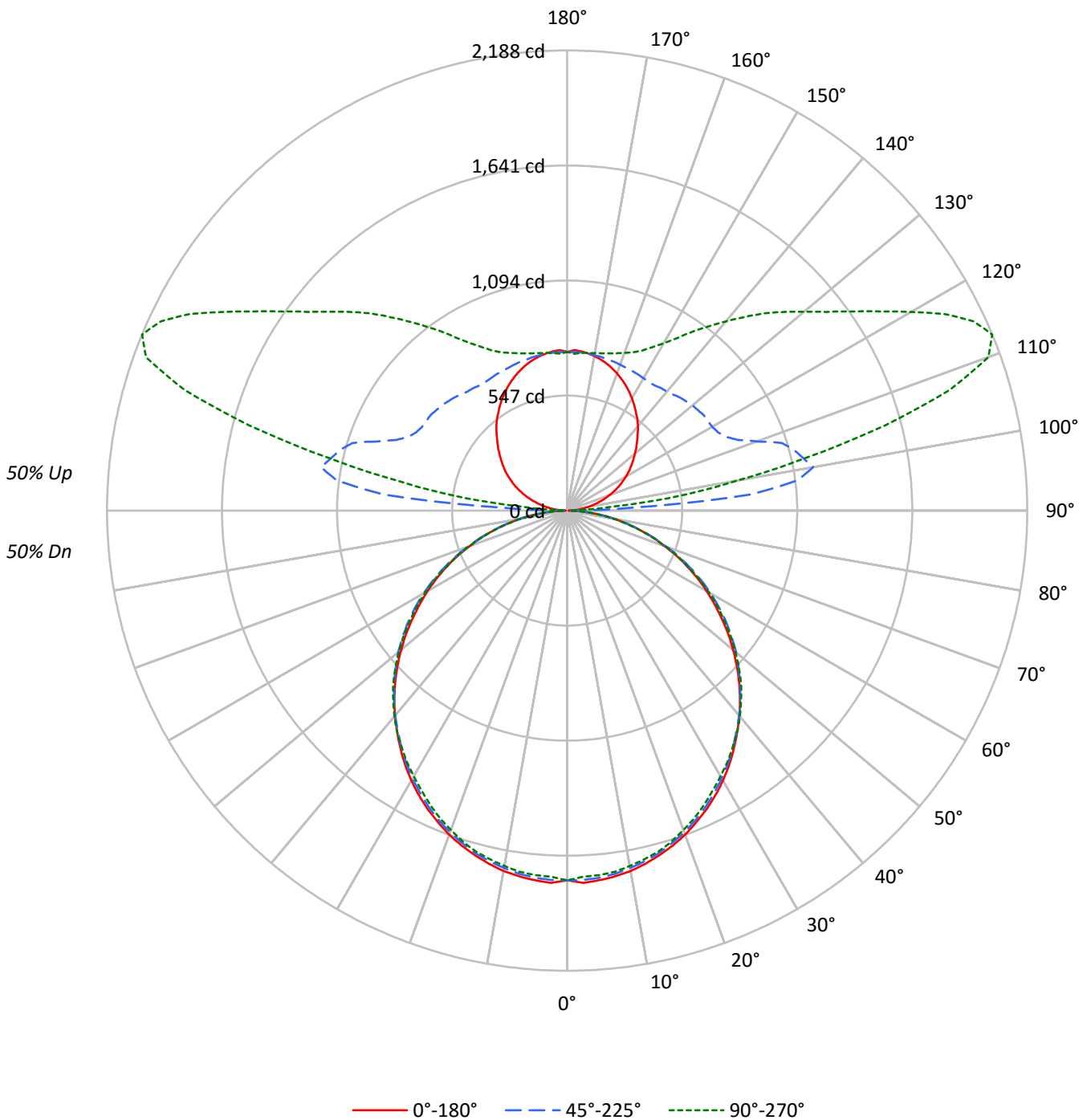
Input Watts (W): 81.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50				
1	98	93	89	85	90	86	83	79	73	70	68	60	59	57	49	48	47	42				
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34				
3	81	71	63	58	74	66	59	54	56	51	47	46	43	40	38	35	33	29				
4	74	63	55	48	68	58	51	45	49	44	40	41	37	34	34	31	28	25				
5	68	56	47	41	62	52	44	39	44	38	34	37	33	29	30	27	24	21				
6	62	50	42	36	57	46	39	34	40	34	30	33	29	25	27	24	21	19				
7	57	45	37	31	53	42	35	29	36	30	26	30	26	22	25	22	19	16				
8	53	41	33	28	49	38	31	26	33	27	23	28	23	20	23	20	17	15				
9	50	37	30	25	46	35	28	23	30	24	21	25	21	18	21	18	15	13				
10	46	34	27	22	43	32	25	21	28	22	18	23	19	16	20	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5676	5676	5676
5°	5718	5679	5640
10°	5705	5659	5626
15°	5669	5636	5609
20°	5635	5594	5553
25°	5586	5544	5494
30°	5526	5481	5436
35°	5448	5416	5408
40°	5370	5362	5387
45°	5279	5306	5343
50°	5174	5264	5244
55°	5055	5190	5134
60°	4947	5089	5024
65°	4829	4951	4859
70°	4645	4739	4683
75°	4491	4541	4441
80°	4240	4277	4165
85°	3779	3779	3557



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	1.6
10°-20°	474.9	4.7
20°-30°	715.2	7.1
30°-40°	859.7	8.5
40°-50°	895.2	8.9
50°-60°	814.5	8.1
60°-70°	634.3	6.3
70°-80°	382.4	3.8
80°-90°	116.9	1.2
90°-100°	403.2	4.0
100°-110°	1034.6	10.2
110°-120°	1041.8	10.3
120°-130°	815.2	8.1
130°-140°	642.9	6.4
140°-150°	481.9	4.8
150°-160°	342.1	3.4
160°-170°	211.0	2.1
170°-180°	71.8	0.7
0°-30°	1356.4	13.4
0°-40°	2216.1	21.9
0°-60°	3925.8	38.9
0°-90°	5059.3	50.1
90°-120°	2479.7	24.5
90°-150°	4419.6	43.7
90°-180°	5045.0	49.9
0°-180°	10103.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1764	1748	1752	1746	1740	168
15°	1696	1680	1686	1684	1678	479
25°	1568	1552	1556	1548	1542	722
35°	1382	1370	1374	1374	1372	865
45°	1156	1150	1162	1168	1170	892
55°	898	900	922	916	912	804
65°	632	642	648	642	636	625
75°	360	364	364	358	356	380
85°	102	106	102	98	96	110
90°	8	14	14	16	12	13
95°	48	160	878	372	232	52
105°	158	262	1116	1802	1564	167
115°	270	352	830	1824	2130	266
125°	372	432	792	1382	1650	333
135°	470	518	760	1144	1326	364
145°	570	598	726	926	1038	357
155°	658	668	732	800	838	303
165°	724	722	744	764	774	204
175°	760	752	754	754	752	72
180°	754	754	754	754	754	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758	1758	1758	1758	1758
2.5°	1772	1754	1758	1754	1742
5°	1764	1748	1752	1746	1740
7.5°	1754	1736	1742	1736	1732
10°	1740	1722	1726	1722	1716
12.5°	1720	1702	1708	1704	1698
15°	1696	1680	1686	1684	1678
17.5°	1670	1654	1658	1656	1650
20°	1640	1622	1628	1622	1616
22.5°	1604	1588	1594	1586	1582
25°	1568	1552	1556	1548	1542
27.5°	1526	1510	1514	1506	1500
30°	1482	1466	1470	1460	1458
32.5°	1434	1420	1424	1420	1418
35°	1382	1370	1374	1374	1372
37.5°	1328	1318	1322	1326	1328
40°	1274	1264	1272	1278	1278
42.5°	1216	1208	1218	1224	1224
45°	1156	1150	1162	1168	1170
47.5°	1094	1090	1106	1110	1108
50°	1030	1028	1048	1048	1044
52.5°	966	964	986	984	980
55°	898	900	922	916	912
57.5°	832	836	856	848	848
60°	766	772	788	780	778
62.5°	700	706	718	710	710
65°	632	642	648	642	636
67.5°	564	576	576	572	570
70°	492	506	502	498	496
72.5°	428	434	432	428	426
75°	360	364	364	358	356
77.5°	294	298	296	292	288
80°	228	232	230	226	224
82.5°	166	166	164	160	158
85°	102	106	102	98	96
87.5°	48	48	44	42	38
90°	8	14	14	16	12
92.5°	28	100	304	80	52
95°	48	160	878	372	232
97.5°	76	190	1106	734	548
100°	104	240	1188	1080	822
102.5°	130	258	1150	1470	1172
105°	158	262	1116	1802	1564
107.5°	186	274	1070	1990	1908
110°	214	302	960	2034	2130



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	242	328	878	1956	2188
115°	270	352	830	1824	2130
117.5°	296	374	808	1688	2024
120°	322	394	796	1564	1888
122.5°	348	412	794	1464	1762
125°	372	432	792	1382	1650
127.5°	396	450	784	1316	1552
130°	420	470	778	1260	1470
132.5°	446	492	768	1202	1398
135°	470	518	760	1144	1326
137.5°	496	540	748	1088	1248
140°	524	560	738	1030	1174
142.5°	548	580	734	978	1104
145°	570	598	726	926	1038
147.5°	594	618	724	884	972
150°	616	634	726	850	918
152.5°	638	652	730	818	876
155°	658	668	732	800	838
157.5°	676	684	734	786	814
160°	694	698	738	778	798
162.5°	710	712	742	770	784
165°	724	722	744	764	774
167.5°	736	732	748	760	766
170°	746	740	750	756	760
172.5°	754	748	752	756	756
175°	760	752	754	754	752
177.5°	764	754	754	754	746
180°	754	754	754	754	754

(END OF REPORT)