

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: P234603

Luminaire Tested: **CTA-F-5050-20L840-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234603
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-20L840-UNV-12
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 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: 6666.6 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 12' x H: 0')
CIE Type: General Diffuse

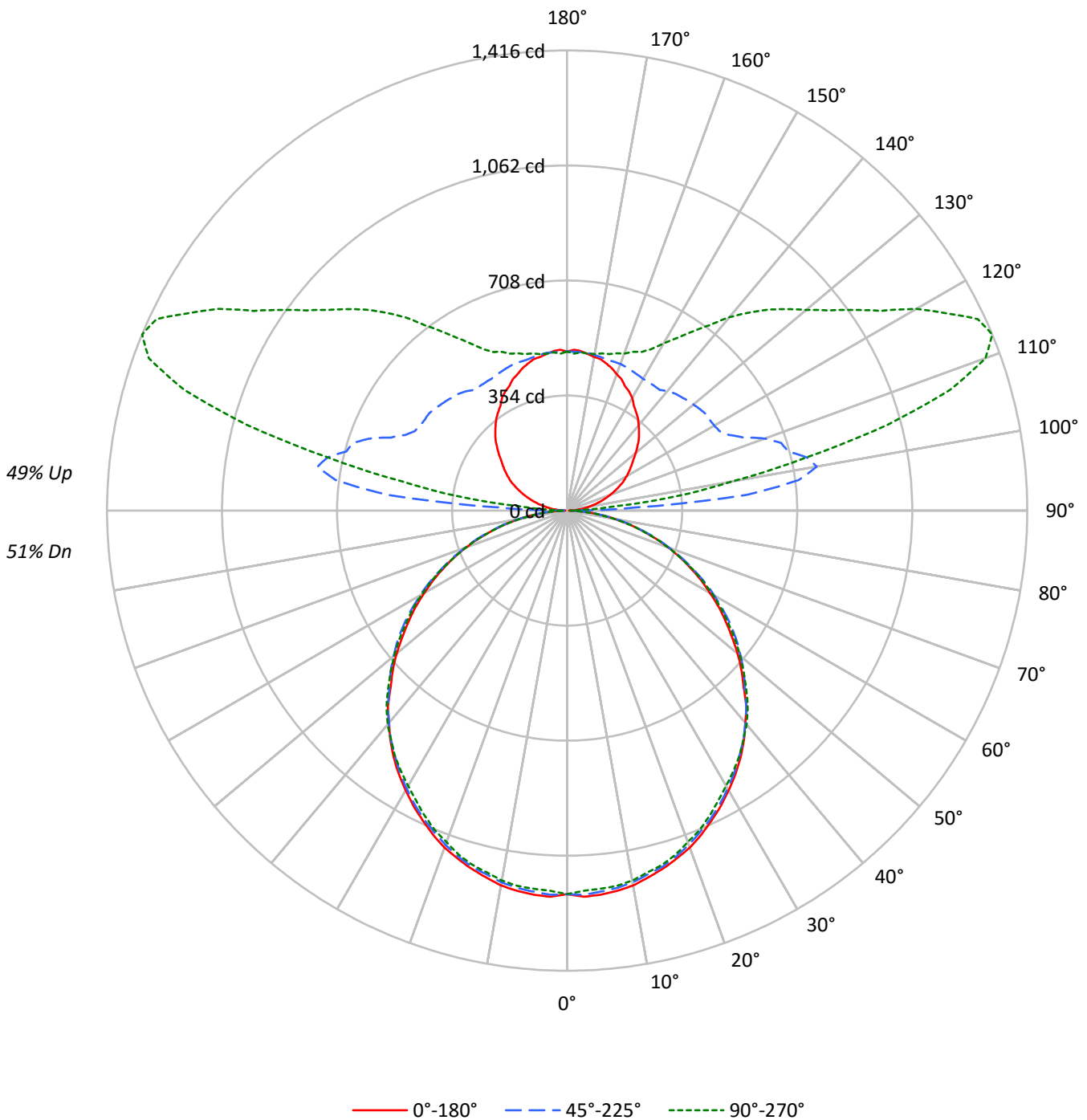
Input Watts (W): 52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P234603

CATALOG NUMBER: CTA-F-5050-20L840-UNV-12

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	50	49	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40	35
3	81	71	64	58	74	66	59	54	56	51	47	47	43	40	38	36	33	29
4	74	63	55	49	68	58	51	46	50	44	40	42	37	34	34	31	29	25
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	31	27	25	22
6	62	50	42	36	57	47	39	34	40	34	30	34	29	26	28	24	22	19
7	58	45	37	31	53	42	35	30	36	30	26	31	26	23	25	22	19	17
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	25	21	26	21	18	21	18	16	13
10	46	34	27	22	43	32	25	21	28	22	19	24	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2541	2541	2541
5°	2564	2544	2524
10°	2560	2540	2526
15°	2542	2528	2514
20°	2529	2508	2487
25°	2498	2484	2462
30°	2470	2455	2432
35°	2443	2427	2427
40°	2397	2397	2414
45°	2336	2355	2374
50°	2294	2335	2324
55°	2238	2307	2272
60°	2185	2251	2225
65°	2134	2181	2165
70°	2078	2098	2078
75°	1984	2009	1984
80°	1857	1895	1820
85°	1662	1662	1512



TEST NUMBER: P234603

CATALOG NUMBER: CTA-F-5050-20L840-UNV-12

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	1.7
10°-20°	319.3	4.8
20°-30°	480.7	7.2
30°-40°	577.1	8.7
40°-50°	597.7	9.0
50°-60°	541.6	8.1
60°-70°	420.6	6.3
70°-80°	254.8	3.8
80°-90°	76.1	1.1
90°-100°	260.2	3.9
100°-110°	671.3	10.1
110°-120°	682.6	10.2
120°-130°	534.8	8.0
130°-140°	421.4	6.3
140°-150°	312.5	4.7
150°-160°	221.1	3.3
160°-170°	136.4	2.0
170°-180°	46.5	0.7
0°-30°	911.8	13.7
0°-40°	1489.0	22.3
0°-60°	2628.2	39.4
0°-90°	3379.8	50.7
90°-120°	1614.1	24.2
90°-150°	2882.8	43.2
90°-180°	3287.0	49.3
0°-180°	6666.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1186	1174	1177	1174	1168	113
15°	1140	1128	1134	1131	1128	322
25°	1052	1043	1046	1040	1037	485
35°	930	920	923	920	923	581
45°	768	764	774	780	780	595
55°	596	599	615	608	605	533
65°	419	425	428	425	425	415
75°	238	245	242	238	238	253
85°	67	67	67	64	61	72
90°	6	9	9	9	9	8
95°	34	101	553	245	150	35
105°	104	186	703	1165	1021	110
115°	177	232	550	1196	1394	175
125°	242	281	520	914	1076	217
135°	312	336	495	749	874	240
145°	370	385	468	608	673	232
155°	422	434	474	517	538	196
165°	468	465	480	495	498	132
175°	492	486	489	486	489	47
180°	489	489	489	489	489	



TEST NUMBER: P234603

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1180.3	1180.3	1180.3	1180.3	1180.3
2.5°	1189.4	1180.3	1183.3	1180.3	1171.1
5°	1186.4	1174.2	1177.2	1174.2	1168.0
7.5°	1180.3	1168.0	1171.1	1168.0	1165.0
10°	1171.1	1158.9	1161.9	1158.9	1155.8
12.5°	1155.8	1143.6	1146.6	1143.6	1140.5
15°	1140.5	1128.3	1134.4	1131.3	1128.3
17.5°	1122.2	1113.0	1116.1	1113.0	1109.9
20°	1103.8	1091.6	1094.7	1091.6	1085.5
22.5°	1079.4	1070.2	1070.2	1067.1	1064.1
25°	1051.8	1042.7	1045.7	1039.6	1036.6
27.5°	1024.3	1015.2	1018.2	1012.1	1006.0
30°	993.8	984.6	987.6	981.5	978.5
32.5°	963.2	954.0	957.1	950.9	950.9
35°	929.5	920.4	923.4	920.4	923.4
37.5°	892.8	883.7	889.8	889.8	889.8
40°	853.1	847.0	853.1	856.2	859.2
42.5°	816.4	810.3	816.4	822.5	822.5
45°	767.5	764.4	773.6	779.7	779.7
47.5°	727.7	724.7	736.9	740.0	736.9
50°	684.9	684.9	697.2	697.2	694.1
52.5°	639.1	642.1	657.4	654.3	651.3
55°	596.3	599.3	614.6	608.5	605.4
57.5°	553.4	556.5	568.7	562.6	562.6
60°	507.6	513.7	522.9	516.8	516.8
62.5°	464.8	467.8	477.0	470.9	470.9
65°	418.9	425.0	428.1	425.0	425.0
67.5°	376.1	382.2	382.2	376.1	376.1
70°	330.2	336.3	333.3	330.2	330.2
72.5°	284.4	290.5	290.5	284.4	284.4
75°	238.5	244.6	241.6	238.5	238.5
77.5°	195.7	198.8	198.8	192.6	192.6
80°	149.8	152.9	152.9	149.8	146.8
82.5°	107.0	110.1	110.1	104.0	104.0
85°	67.3	67.3	67.3	64.2	61.2
87.5°	27.5	30.6	27.5	24.5	21.4
90°	6.1	9.2	9.2	9.2	9.2
92.5°	18.3	64.2	207.9	61.2	36.7
95°	33.6	100.9	553.4	244.6	149.8
97.5°	52.0	125.4	718.6	458.7	342.5
100°	67.3	159.0	779.7	681.9	516.8
102.5°	85.6	177.3	755.3	941.8	752.2
105°	104.0	186.5	703.3	1165.0	1021.3
107.5°	122.3	192.6	691.0	1281.2	1235.3
110°	140.7	204.9	648.2	1305.6	1369.8



TEST NUMBER: P234603

CATALOG NUMBER: CTA-F-5050-20L840-UNV-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	159.0	220.2	587.1	1275.1	1415.7
115°	177.3	232.4	550.4	1195.6	1394.3
117.5°	195.7	244.6	529.0	1103.8	1314.8
120°	211.0	259.9	522.9	1027.4	1241.4
122.5°	226.3	272.1	519.8	960.1	1143.6
125°	241.6	281.3	519.8	914.3	1076.3
127.5°	256.8	293.5	513.7	874.5	1012.1
130°	275.2	308.8	507.6	831.7	960.1
132.5°	293.5	324.1	501.5	788.9	917.3
135°	311.9	336.3	495.3	749.1	874.5
137.5°	327.2	348.6	489.2	715.5	825.6
140°	342.5	363.9	480.1	675.8	776.7
142.5°	357.8	373.0	467.8	639.1	718.6
145°	370.0	385.3	467.8	608.5	672.7
147.5°	382.2	400.6	467.8	574.8	629.9
150°	400.6	409.7	467.8	541.2	593.2
152.5°	412.8	422.0	470.9	529.0	559.6
155°	422.0	434.2	473.9	516.8	538.2
157.5°	437.3	443.4	477.0	510.6	529.0
160°	446.4	452.5	480.1	504.5	513.7
162.5°	458.7	458.7	480.1	501.5	507.6
165°	467.8	464.8	480.1	495.3	498.4
167.5°	477.0	470.9	483.1	489.2	495.3
170°	480.1	477.0	486.2	492.3	489.2
172.5°	486.2	483.1	489.2	489.2	486.2
175°	492.3	486.2	489.2	486.2	489.2
177.5°	495.3	489.2	489.2	486.2	483.1
180°	489.2	489.2	489.2	489.2	489.2

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