

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: G2-1709-282-9

Luminaire Tested: **CTA-F-5050-60L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: G2-1709-282-9
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-5050-60L835-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
6000 LUMENS, 50% UPLIGHT, 50% DOWNLIGHT
Light Source: (336) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6090.1 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.37
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: General Diffuse

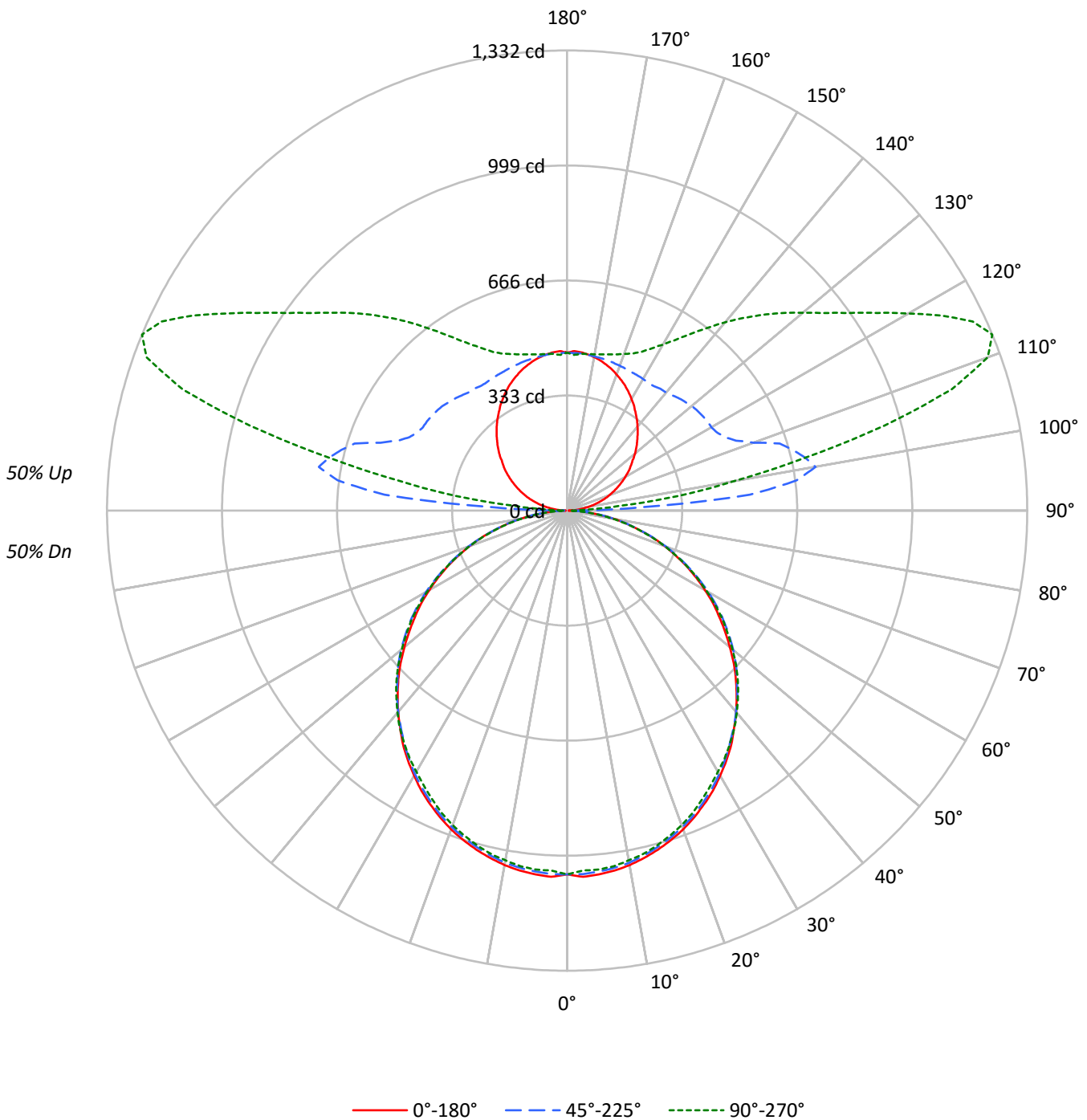
Input Watts (W): 50.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
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	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	97	93	89	85	90	86	82	79	73	70	68	60	58	57	49	48	47	41																												
2	89	81	75	69	81	75	69	65	63	59	56	53	50	47	43	41	39	34																												
3	81	71	63	57	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	39	41	37	34	34	31	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	40	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	28	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°	6800	6800	6800
5°	6852	6800	6761
10°	6833	6787	6741
15°	6793	6746	6712
20°	6749	6700	6659
25°	6684	6641	6577
30°	6607	6569	6510
35°	6528	6480	6480
40°	6415	6415	6441
45°	6311	6347	6384
50°	6179	6309	6279
55°	6057	6215	6181
60°	5954	6096	6032
65°	5822	5914	5868
70°	5664	5740	5664
75°	5389	5414	5340
80°	5095	5132	4909
85°	4520	4520	4075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.6
10°-20°	284.4	4.7
20°-30°	428.4	7.0
30°-40°	514.7	8.5
40°-50°	536.1	8.8
50°-60°	488.2	8.0
60°-70°	380.6	6.2
70°-80°	230.1	3.8
80°-90°	69.5	1.1
90°-100°	247.5	4.1
100°-110°	628.1	10.3
110°-120°	630.9	10.4
120°-130°	493.4	8.1
130°-140°	389.3	6.4
140°-150°	291.3	4.8
150°-160°	206.8	3.4
160°-170°	127.6	2.1
170°-180°	43.5	0.7
0°-30°	812.4	13.3
0°-40°	1327.1	21.8
0°-60°	2351.4	38.6
0°-90°	3031.7	49.8
90°-120°	1506.5	24.7
90°-150°	2680.6	44.0
90°-180°	3058.0	50.2
0°-180°	6090.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1053	1053	1053	1053	1053	
5°	1057	1047	1049	1046	1043	100
15°	1016	1006	1009	1008	1004	287
25°	938	929	932	927	923	432
35°	828	821	822	822	822	517
45°	691	689	695	701	699	533
55°	538	540	552	549	549	482
65°	381	385	387	384	384	377
75°	216	220	217	215	214	229
85°	61	63	61	59	55	65
90°	4	8	8	8	7	7
95°	29	97	531	245	150	31
105°	96	159	677	1100	951	102
115°	162	212	503	1105	1295	160
125°	225	264	478	836	997	201
135°	287	314	459	691	801	222
145°	345	362	439	560	625	216
155°	398	404	442	483	506	183
165°	437	437	450	463	468	123
175°	460	455	457	456	455	44
180°	457	457	457	457	457	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053	1053	1053	1053	1053
2.5°	1061	1051	1053	1050	1043
5°	1057	1047	1049	1046	1043
7.5°	1051	1041	1043	1041	1038
10°	1042	1031	1035	1032	1028
12.5°	1030	1020	1023	1021	1018
15°	1016	1006	1009	1008	1004
17.5°	1000	990	993	992	987
20°	982	972	975	971	969
22.5°	961	952	955	949	948
25°	938	929	932	927	923
27.5°	914	905	907	903	898
30°	886	878	881	875	873
32.5°	858	850	852	850	849
35°	828	821	822	822	822
37.5°	794	790	791	795	795
40°	761	757	761	765	764
42.5°	726	724	729	734	732
45°	691	689	695	701	699
47.5°	654	653	663	666	663
50°	615	616	628	629	625
52.5°	576	579	590	590	586
55°	538	540	552	549	549
57.5°	501	502	513	508	508
60°	461	462	472	467	467
62.5°	421	424	430	426	426
65°	381	385	387	384	384
67.5°	340	345	345	341	342
70°	300	305	304	300	300
72.5°	259	263	261	259	258
75°	216	220	217	215	214
77.5°	176	179	177	174	173
80°	137	139	138	134	132
82.5°	97	100	99	96	93
85°	61	63	61	59	55
87.5°	28	28	27	24	22
90°	4	8	8	8	7
92.5°	17	64	215	56	38
95°	29	97	531	245	150
97.5°	46	116	670	432	325
100°	63	148	730	636	491
102.5°	80	156	706	883	704
105°	96	159	677	1100	951
107.5°	114	166	645	1215	1166
110°	130	182	575	1241	1295



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146	198	529	1191	1332
115°	162	212	503	1105	1295
117.5°	178	225	489	1019	1222
120°	194	238	482	944	1141
122.5°	210	250	481	885	1065
125°	225	264	478	836	997
127.5°	239	275	475	796	939
130°	257	287	471	762	891
132.5°	272	301	465	727	847
135°	287	314	459	691	801
137.5°	302	327	452	657	756
140°	317	339	446	622	712
142.5°	332	351	444	591	666
145°	345	362	439	560	625
147.5°	360	373	438	534	586
150°	373	384	440	514	555
152.5°	386	394	441	495	529
155°	398	404	442	483	506
157.5°	409	413	444	476	492
160°	419	422	446	470	482
162.5°	429	430	448	466	474
165°	437	437	450	463	468
167.5°	445	443	452	459	463
170°	451	448	453	458	459
172.5°	456	452	455	457	457
175°	460	455	457	456	455
177.5°	462	456	456	456	451
180°	457	457	457	457	457

(END OF REPORT)