

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: P234859

Luminaire Tested: **CTA-F-2575-20L840-UNV-8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-4_PR)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-2575-20L840-UNV-8
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
2000 LUMENS, 25% UPLIGHT, 75% DOWNLIGHT
Light Source: (672) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4638.3 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 8' x H: 0')
CIE Type: Semi-Direct

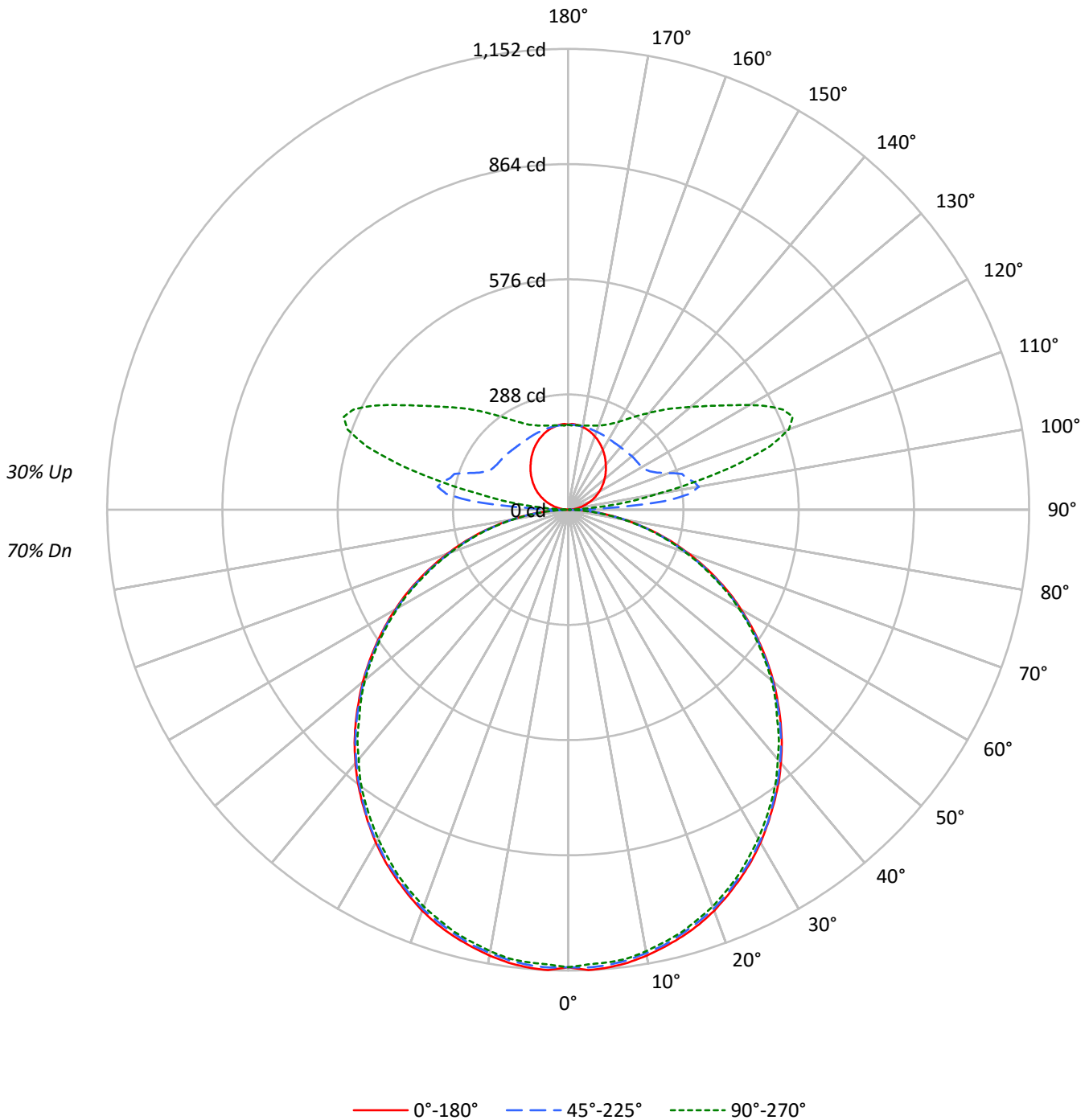
Input Watts (W): 38.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	102	97	93	89	96	92	89	85	82	80	77	74	71	69	65	64	62	58
2	93	85	78	73	87	80	74	70	72	67	63	64	61	58	57	54	52	48
3	84	74	66	60	79	70	63	58	63	58	53	57	52	48	50	47	44	41
4	77	66	57	51	73	62	55	49	56	50	45	50	45	41	45	41	38	35
5	71	59	50	44	67	56	48	42	50	44	39	45	40	36	40	36	33	30
6	65	53	44	38	61	50	42	37	45	39	34	41	35	31	37	32	29	26
7	60	47	39	33	57	45	38	32	41	35	30	37	32	28	33	29	25	23
8	56	43	35	29	53	41	34	28	37	31	27	34	29	25	31	26	23	21
9	52	39	32	26	49	38	30	25	34	28	24	31	26	22	28	24	21	19
10	49	36	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3693	3693	3693
5°	3724	3703	3682
10°	3711	3689	3674
15°	3691	3670	3656
20°	3666	3650	3627
25°	3625	3609	3587
30°	3583	3571	3542
35°	3532	3521	3496
40°	3486	3472	3433
45°	3429	3416	3372
50°	3367	3353	3329
55°	3295	3277	3250
60°	3220	3199	3178
65°	3136	3097	3061
70°	3026	2978	2946
75°	2893	2836	2812
80°	2665	2639	2587
85°	2390	2234	2045



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	2.3
10°-20°	309.4	6.7
20°-30°	465.5	10.0
30°-40°	557.0	12.0
40°-50°	574.8	12.4
50°-60°	519.7	11.2
60°-70°	401.4	8.7
70°-80°	241.0	5.2
80°-90°	69.7	1.5
90°-100°	112.7	2.4
100°-110°	285.6	6.2
110°-120°	286.9	6.2
120°-130°	222.5	4.8
130°-140°	175.0	3.8
140°-150°	133.3	2.9
150°-160°	96.0	2.1
160°-170°	59.3	1.3
170°-180°	20.2	0.4
0°-30°	883.2	19.0
0°-40°	1440.2	31.1
0°-60°	2534.7	54.6
0°-90°	3246.8	70.0
90°-120°	685.2	14.8
90°-150°	1216.0	26.2
90°-180°	1392.0	30.0
0°-180°	4638.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1144	1144	1144	1144	1144	
5°	1149	1138	1142	1139	1136	109
15°	1104	1094	1098	1097	1094	312
25°	1018	1008	1013	1007	1007	469
35°	896	890	893	885	887	561
45°	751	745	748	740	738	579
55°	585	584	582	576	577	523
65°	410	407	405	402	401	406
75°	232	229	227	227	225	244
85°	64	64	60	57	55	69
90°	1	1	1	1	1	5
95°	12	41	240	113	73	13
105°	42	69	305	497	436	44
115°	73	93	226	508	592	73
125°	104	120	210	378	453	93
135°	133	145	206	308	356	102
145°	160	168	203	254	282	100
155°	185	187	206	224	235	85
165°	204	203	210	215	218	57
175°	214	211	212	212	212	20
180°	212	212	212	212	212	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.8	1143.8	1143.8	1143.8	1143.8
2.5°	1152.1	1141.0	1145.6	1143.8	1137.7
5°	1148.9	1137.7	1142.4	1139.1	1135.9
7.5°	1142.4	1131.7	1135.9	1132.6	1131.7
10°	1131.7	1120.6	1125.2	1121.5	1120.6
12.5°	1118.7	1107.6	1114.1	1110.8	1107.6
15°	1104.3	1093.7	1097.8	1096.9	1093.7
17.5°	1087.2	1076.0	1080.7	1079.3	1074.6
20°	1066.8	1055.6	1062.1	1057.0	1055.6
22.5°	1042.6	1033.4	1038.5	1032.0	1032.0
25°	1017.6	1008.3	1013.0	1006.9	1006.9
27.5°	990.7	981.4	987.4	980.0	978.2
30°	961.0	952.7	957.8	949.9	949.9
32.5°	929.0	923.0	928.1	918.3	918.3
35°	896.1	890.0	893.3	884.9	886.8
37.5°	863.1	856.7	859.9	852.0	853.4
40°	827.0	821.9	823.7	815.8	814.4
42.5°	790.3	783.8	787.5	779.7	779.7
45°	750.9	744.9	748.1	739.8	738.4
47.5°	710.1	708.2	706.8	700.8	702.2
50°	670.2	669.3	667.4	660.9	662.8
52.5°	628.0	626.1	625.2	618.7	620.1
55°	585.3	583.9	582.1	576.1	577.4
57.5°	542.7	541.3	539.4	535.2	535.2
60°	498.6	497.2	495.3	492.1	492.1
62.5°	456.4	454.5	451.3	448.0	448.0
65°	410.5	407.2	405.4	402.1	400.7
67.5°	365.9	361.3	359.9	358.1	356.7
70°	320.5	317.2	315.4	314.0	312.1
72.5°	276.0	273.2	271.3	271.3	268.1
75°	231.9	228.7	227.3	227.3	225.4
77.5°	186.0	187.8	184.6	184.6	181.3
80°	143.3	143.3	141.9	140.5	139.1
82.5°	102.5	104.4	101.1	99.3	96.0
85°	64.5	64.5	60.3	56.6	55.2
87.5°	28.3	26.9	23.7	20.4	17.2
90°	0.9	1.4	1.4	1.4	0.9
92.5°	6.0	26.9	99.7	23.7	15.8
95°	12.1	41.3	240.3	113.2	73.3
97.5°	18.6	49.6	307.5	202.7	153.1
100°	26.0	64.9	331.2	298.2	224.9
102.5°	33.9	68.2	321.9	408.6	329.3
105°	41.7	69.1	305.2	497.2	436.0
107.5°	49.6	70.5	298.2	551.0	529.2
110°	58.0	77.0	267.6	564.5	586.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.9	85.3	241.2	545.4	607.1
115°	73.3	92.8	226.3	508.3	592.3
117.5°	81.6	99.7	217.5	468.0	560.3
120°	89.5	106.7	213.4	432.3	523.2
122.5°	96.9	113.6	211.0	402.6	485.6
125°	104.4	120.1	209.6	378.0	453.1
127.5°	111.3	126.2	208.7	357.6	424.4
130°	118.3	132.2	207.8	339.0	399.3
132.5°	125.7	138.7	206.4	322.8	377.1
135°	132.6	144.7	205.5	307.5	356.2
137.5°	139.6	151.2	204.5	292.7	335.8
140°	146.1	156.8	203.6	278.3	316.3
142.5°	153.1	162.3	203.6	266.2	298.2
145°	160.0	167.9	203.1	254.2	282.0
147.5°	166.5	173.0	203.6	244.9	266.7
150°	173.0	178.1	204.1	237.0	254.2
152.5°	179.0	182.7	205.0	229.6	243.5
155°	184.6	187.4	205.9	224.5	234.7
157.5°	190.2	192.0	206.9	221.2	228.7
160°	194.8	196.2	207.3	218.5	224.0
162.5°	199.4	199.9	208.3	216.6	220.3
165°	203.6	203.1	209.6	215.2	217.5
167.5°	206.9	205.9	210.1	213.4	215.2
170°	209.6	208.7	211.0	212.9	213.8
172.5°	212.4	210.1	211.5	212.4	212.9
175°	213.8	211.0	212.0	212.0	212.0
177.5°	214.7	212.4	212.4	212.4	210.6
180°	212.4	212.4	212.4	212.4	212.4

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