

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: P234541

Luminaire Tested: **CTA-F-0100-30L840-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P234541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1709-282-16)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: CTA-F-0100-30L840-UNV-4
Description: CORELITE CONTINUA SUSPENDED LED LUMINAIRE
3000 LUMENS, 0% UPLIGHT, 100% DOWNLIGHT
Light Source: (336) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

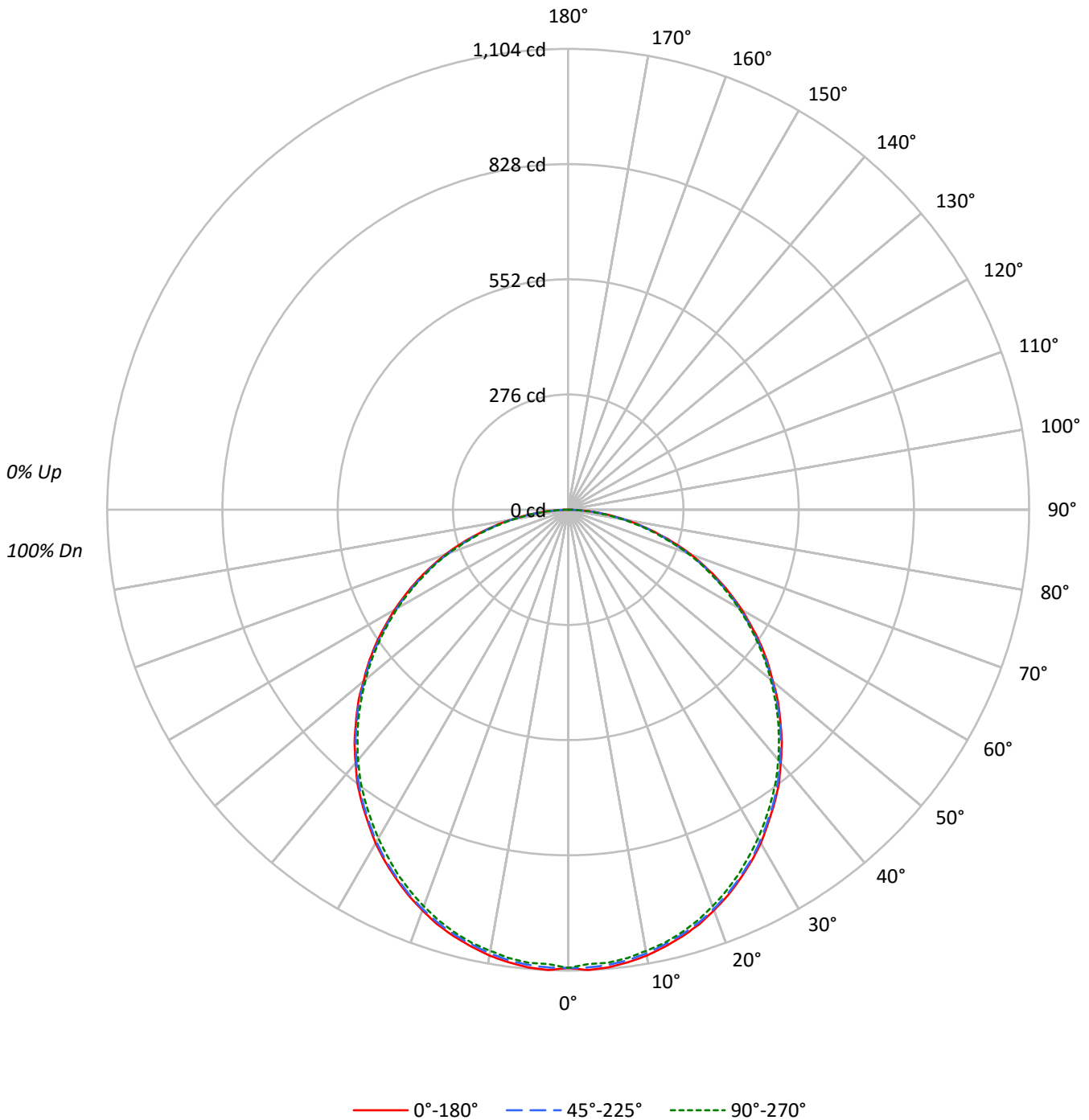
Lumens per Lamp: N/A
Luminaire Lumens: 3114.2 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.23 / 1.36
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	62	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7089	7089	7089
5°	7136	7096	7063
10°	7112	7078	7037
15°	7073	7046	7012
20°	7019	6997	6949
25°	6950	6928	6870
30°	6878	6848	6780
35°	6781	6758	6693
40°	6676	6651	6599
45°	6563	6544	6488
50°	6431	6410	6358
55°	6334	6277	6231
60°	6201	6135	6095
65°	6059	5966	5918
70°	5889	5753	5734
75°	5569	5467	5367
80°	5154	5080	4890
85°	4609	4305	3927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	3.3
10°-20°	296.6	9.5
20°-30°	446.4	14.3
30°-40°	533.9	17.1
40°-50°	550.6	17.7
50°-60°	497.8	16.0
60°-70°	386.9	12.4
70°-80°	231.8	7.4
80°-90°	66.3	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	846.8	27.2
0°-40°	1380.7	44.3
0°-60°	2429.2	78.0
0°-90°	3114.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3114.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1098	1098	1098	1098	1098	
5°	1101	1091	1095	1092	1090	105
15°	1058	1048	1054	1051	1049	298
25°	975	967	972	965	964	450
35°	860	852	857	850	849	538
45°	719	716	716	709	710	555
55°	563	560	558	553	553	502
65°	396	392	390	387	387	392
75°	223	220	219	217	215	237
85°	62	61	58	55	53	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1097.7	1097.7	1097.7	1097.7	1097.7
2.5°	1103.8	1093.6	1097.7	1095.7	1089.6
5°	1100.8	1090.6	1094.7	1091.6	1089.6
7.5°	1093.6	1083.4	1088.5	1085.5	1083.4
10°	1084.5	1074.3	1079.4	1076.3	1073.2
12.5°	1072.2	1062.0	1067.1	1064.1	1063.1
15°	1058.0	1047.8	1053.9	1050.8	1048.8
17.5°	1041.7	1031.5	1037.6	1035.5	1031.5
20°	1021.3	1012.1	1018.2	1013.1	1011.1
22.5°	999.9	991.7	996.8	989.7	988.7
25°	975.4	967.2	972.3	965.2	964.2
27.5°	949.9	941.8	946.9	939.7	936.7
30°	922.4	913.2	918.3	911.2	909.2
32.5°	890.8	883.7	887.7	881.6	879.6
35°	860.2	852.1	857.2	850.0	849.0
37.5°	828.6	820.5	824.6	816.4	817.4
40°	791.9	785.8	788.9	781.7	782.8
42.5°	757.3	752.2	754.2	746.1	747.1
45°	718.6	715.5	716.5	709.4	710.4
47.5°	681.9	676.8	677.8	671.7	671.7
50°	640.1	638.0	638.0	632.9	632.9
52.5°	602.4	599.3	598.3	593.2	594.2
55°	562.6	559.6	557.5	553.4	553.4
57.5°	520.8	518.8	515.7	511.7	512.7
60°	480.1	478.0	475.0	470.9	471.9
62.5°	438.3	435.2	433.2	431.1	429.1
65°	396.5	392.4	390.4	387.3	387.3
67.5°	353.7	350.6	348.6	346.5	346.5
70°	311.9	307.8	304.7	303.7	303.7
72.5°	268.1	264.0	260.9	260.9	256.8
75°	223.2	220.2	219.1	217.1	215.1
77.5°	181.4	178.4	177.3	175.3	173.3
80°	138.6	137.6	136.6	133.5	131.5
82.5°	99.9	98.9	96.8	93.8	91.7
85°	62.2	61.2	58.1	55.0	53.0
87.5°	26.5	25.5	21.4	18.3	17.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)