

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: P302430

Luminaire Tested: **ZX-WO-30L840-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-42)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-30L840-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (168)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

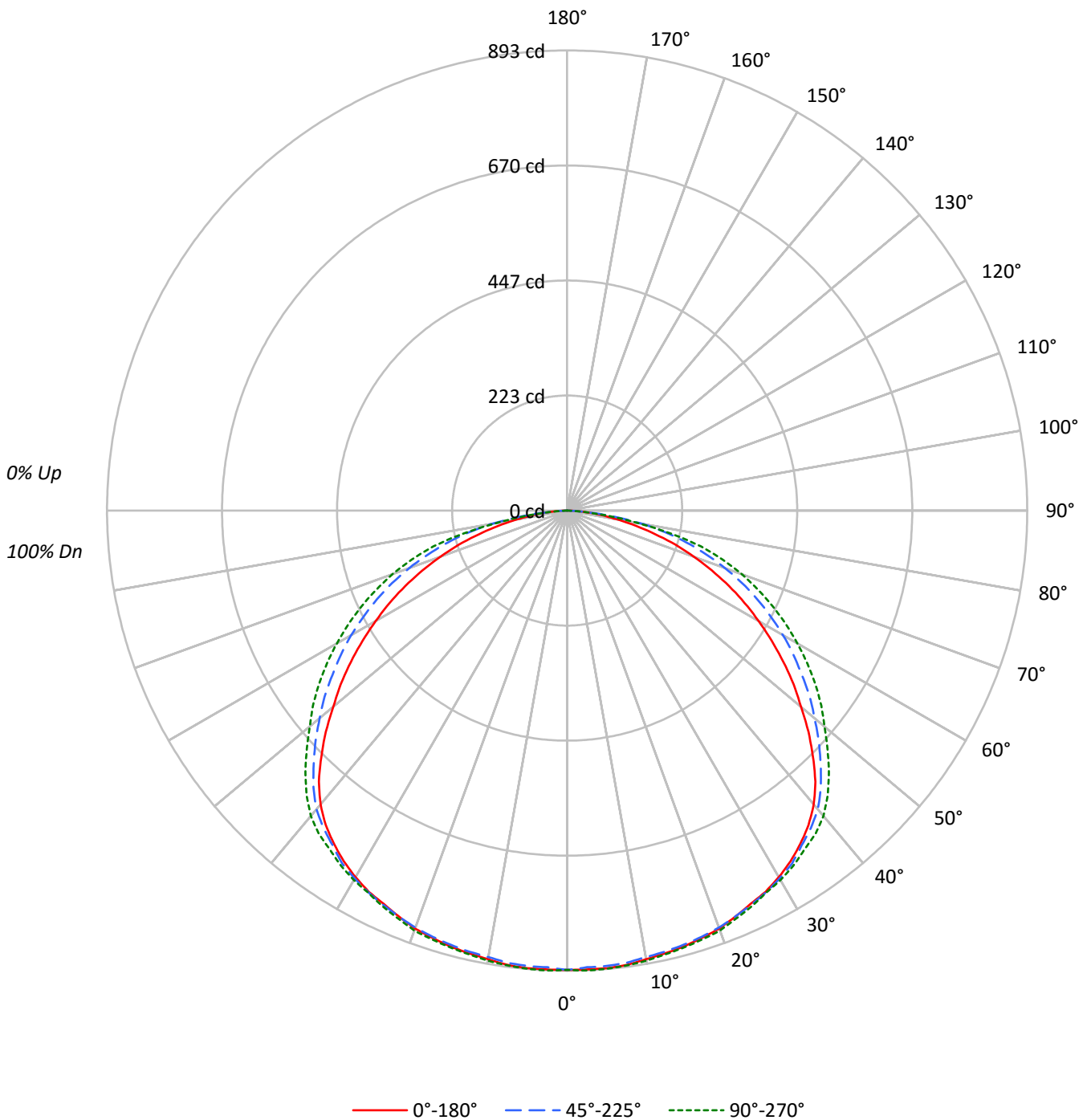
Lumens per Lamp: N/A
Luminaire Lumens: 2948.5 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.39 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 22.3
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	52	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	49	43	38	36
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1199	1199	1199
5°	1204	1198	1205
10°	1208	1202	1212
15°	1220	1215	1223
20°	1236	1233	1242
25°	1250	1254	1258
30°	1276	1281	1286
35°	1296	1303	1319
40°	1308	1330	1359
45°	1284	1323	1367
50°	1240	1312	1364
55°	1202	1304	1380
60°	1154	1303	1390
65°	1104	1296	1402
70°	1028	1282	1417
75°	920	1250	1396
80°	766	1154	1073
85°	579	675	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	2.9
10°-20°	247.7	8.4
20°-30°	390.7	13.2
30°-40°	498.7	16.9
40°-50°	537.2	18.2
50°-60°	495.0	16.8
60°-70°	395.9	13.4
70°-80°	243.0	8.2
80°-90°	55.4	1.9
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°	723.2	24.5
0°-40°	1221.9	41.4
0°-60°	2254.2	76.5
0°-90°	2948.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2948.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	891	891	887	892	892	85
15°	876	877	872	878	878	248
25°	842	843	844	849	848	390
35°	789	791	793	802	803	494
45°	675	682	696	713	718	519
55°	512	526	556	581	588	458
65°	347	370	407	432	440	342
75°	177	205	240	262	269	189
85°	38	50	44	38	36	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	891.3	891.3	891.3	891.3	891.3
2.5°	891.3	892.3	887.1	892.3	893.4
5°	891.3	891.3	887.1	892.3	892.3
7.5°	889.2	889.2	885.0	890.2	890.2
10°	884.0	884.0	879.8	885.0	887.1
12.5°	879.8	879.8	876.7	881.9	881.9
15°	875.7	876.7	872.5	877.7	877.7
17.5°	869.4	869.4	867.3	871.5	872.5
20°	863.2	863.2	861.1	866.3	867.3
22.5°	852.8	853.8	852.8	856.9	856.9
25°	842.3	843.4	844.4	848.6	847.5
27.5°	834.0	835.1	835.1	839.2	836.1
30°	821.5	824.6	824.6	826.7	827.8
32.5°	806.9	811.1	812.1	816.3	817.3
35°	789.2	791.3	793.4	801.7	802.8
37.5°	769.5	774.7	776.7	788.2	791.3
40°	744.5	750.7	757.0	771.5	773.6
42.5°	713.2	720.5	728.8	744.5	748.6
45°	674.7	682.0	695.5	713.2	718.4
47.5°	635.1	643.5	662.2	681.0	685.1
50°	592.4	604.9	626.8	648.7	651.8
52.5°	553.9	566.4	593.5	616.4	621.6
55°	512.3	525.8	556.0	581.0	588.3
57.5°	470.6	488.3	520.6	545.6	552.9
60°	429.0	447.7	484.2	507.1	516.4
62.5°	388.4	409.2	445.6	471.7	479.0
65°	346.7	369.6	407.1	432.1	440.4
67.5°	304.0	328.0	367.5	392.5	400.9
70°	261.3	288.4	325.9	353.0	360.3
72.5°	220.7	245.7	283.2	307.2	316.5
75°	177.0	205.1	240.5	262.4	268.6
77.5°	137.4	164.5	195.7	209.3	207.2
80°	98.9	127.0	148.9	144.7	138.5
82.5°	66.6	89.5	92.7	86.4	84.3
85°	37.5	50.0	43.7	38.5	36.4
87.5°	15.6	13.5	7.3	3.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)