

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: P302312

Luminaire Tested: **ZX-WO-30H840-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-133-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: ZX-WO-30H840-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (252)4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

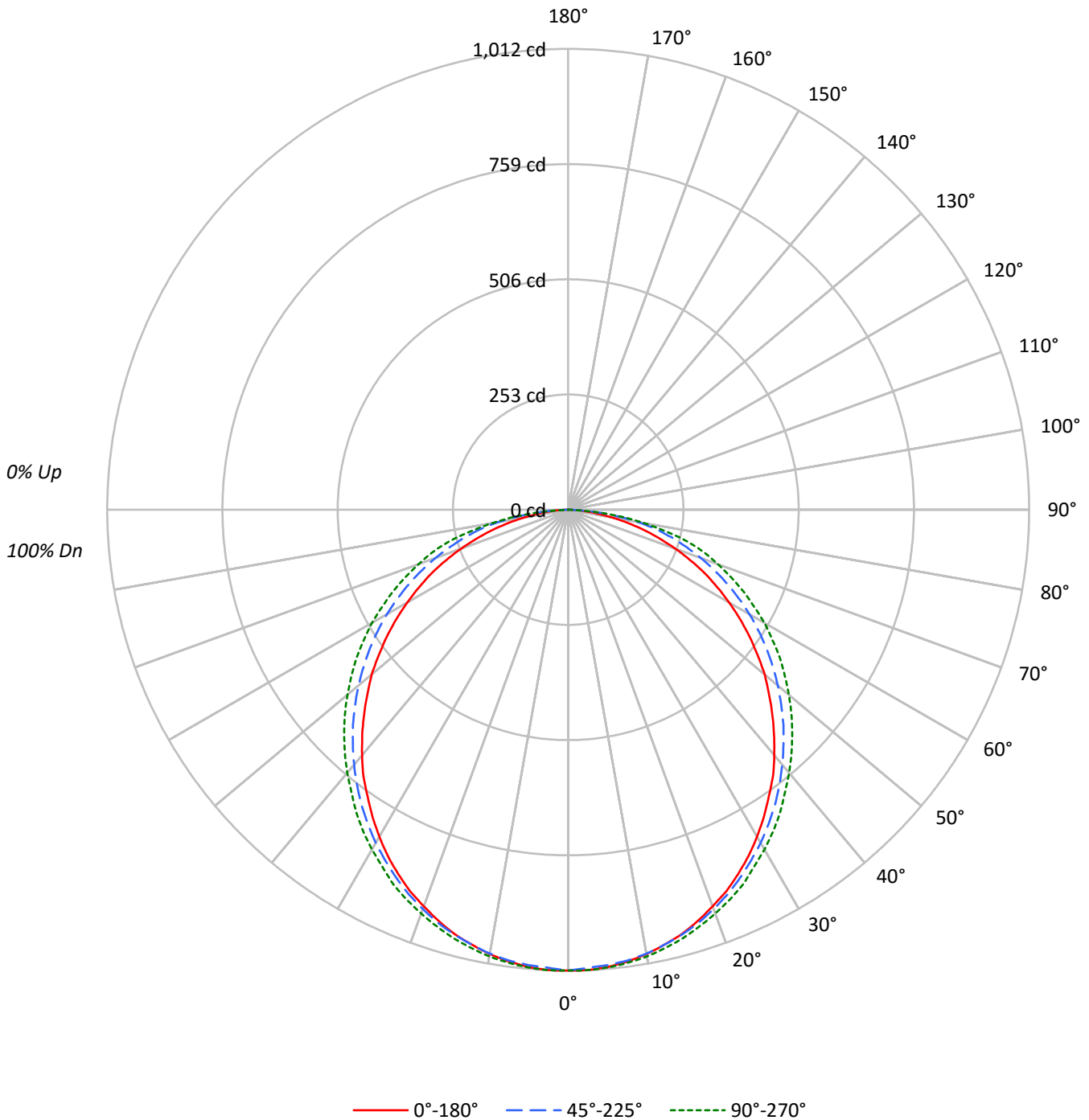
Lumens per Lamp: N/A
Luminaire Lumens: 2946.0 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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				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	90	83	77	96	88	81	76	84	79	74		81	76	72		78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62		71	65	61		68	64	60	57
4	82	69	60	54	79	68	60	53	65	58	52		63	57	52		61	55	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39		51	44	39		50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		42	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25		36	30	25		36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1362	1362	1362
5°	1361	1356	1363
10°	1354	1353	1361
15°	1344	1345	1357
20°	1327	1336	1351
25°	1310	1325	1348
30°	1288	1313	1339
35°	1261	1300	1332
40°	1236	1284	1325
45°	1205	1271	1323
50°	1178	1257	1324
55°	1140	1246	1330
60°	1098	1237	1339
65°	1055	1226	1350
70°	985	1217	1374
75°	897	1220	1417
80°	742	1206	1304
85°	568	959	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	3.2
10°-20°	273.2	9.3
20°-30°	412.2	14.0
30°-40°	494.9	16.8
40°-50°	514.6	17.5
50°-60°	473.3	16.1
60°-70°	377.2	12.8
70°-80°	239.0	8.1
80°-90°	65.7	2.2
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°	781.1	26.5
0°-40°	1276.0	43.3
0°-60°	2264.0	76.8
0°-90°	2946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2946.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1008	1008	1004	1009	1009	96
15°	965	965	966	973	974	272
25°	883	887	892	905	908	407
35°	768	776	791	806	811	481
45°	633	647	668	689	695	489
55°	486	502	531	558	567	434
65°	331	348	385	414	424	327
75°	172	195	235	264	272	182
85°	37	53	62	61	60	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1012.1	1012.1	1012.1	1012.1	1012.1
2.5°	1012.1	1012.1	1006.8	1012.1	1012.1
5°	1007.9	1007.9	1003.7	1009.0	1009.0
7.5°	1000.5	1001.6	998.4	1003.7	1003.7
10°	991.1	992.1	990.0	996.3	996.3
12.5°	978.4	979.5	978.4	985.8	985.8
15°	964.8	964.8	965.8	973.2	974.2
17.5°	946.9	949.0	951.1	959.5	959.5
20°	926.9	930.0	933.2	943.7	943.7
22.5°	906.9	910.1	914.3	924.8	926.9
25°	882.7	886.9	892.2	904.8	908.0
27.5°	857.5	860.6	869.0	882.7	883.8
30°	829.0	834.3	844.8	858.5	861.7
32.5°	799.6	807.0	818.5	834.3	837.5
35°	768.0	776.4	791.2	805.9	811.2
37.5°	738.6	744.9	761.7	778.5	781.7
40°	703.8	713.3	731.2	750.1	754.3
42.5°	669.1	679.6	699.6	718.6	725.9
45°	633.4	647.0	668.1	689.1	695.4
47.5°	597.6	612.3	634.4	657.6	664.9
50°	562.9	576.5	600.7	624.9	632.3
52.5°	523.9	539.7	566.0	592.3	599.7
55°	486.1	501.8	531.3	557.6	567.1
57.5°	447.1	465.0	495.5	522.9	531.3
60°	408.2	427.1	459.8	487.1	497.6
62.5°	369.3	387.2	422.9	450.3	459.8
65°	331.4	348.2	385.1	414.5	424.0
67.5°	290.4	309.3	347.2	377.7	386.1
70°	250.4	269.3	309.3	340.9	349.3
72.5°	209.4	231.5	271.4	301.9	313.5
75°	172.5	194.6	234.6	264.1	272.5
77.5°	133.6	155.7	196.7	217.8	218.8
80°	95.7	121.0	155.7	164.1	168.3
82.5°	63.1	87.3	107.3	117.8	117.8
85°	36.8	52.6	62.1	61.0	60.0
87.5°	13.7	17.9	14.7	10.5	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)