

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: P302300

Luminaire Tested: **ZX-WO-70H830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302300
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-70H830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (588)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

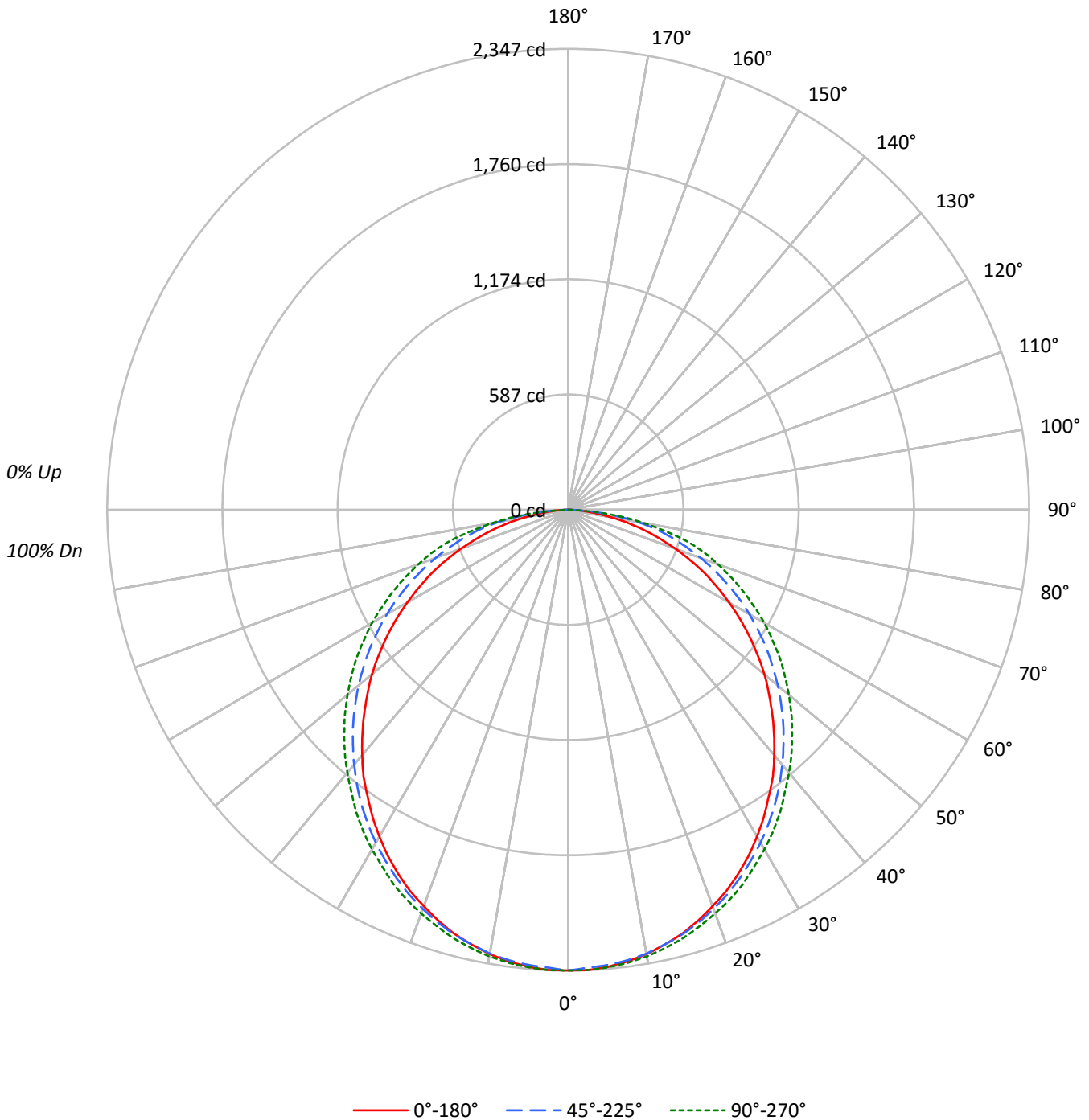
Lumens per Lamp: N/A
Luminaire Lumens: 6830.6 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
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°	3157	3157	3157
5°	3156	3143	3160
10°	3139	3136	3156
15°	3116	3119	3147
20°	3077	3098	3133
25°	3038	3071	3125
30°	2986	3043	3104
35°	2925	3013	3089
40°	2866	2978	3072
45°	2794	2947	3068
50°	2732	2916	3069
55°	2644	2890	3084
60°	2547	2869	3105
65°	2446	2842	3130
70°	2284	2821	3186
75°	2080	2828	3284
80°	1720	2797	3024
85°	1318	2221	2146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	3.2
10°-20°	633.5	9.3
20°-30°	955.7	14.0
30°-40°	1147.4	16.8
40°-50°	1193.3	17.5
50°-60°	1097.5	16.1
60°-70°	874.6	12.8
70°-80°	554.3	8.1
80°-90°	152.4	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°	1811.1	26.5
0°-40°	2958.5	43.3
0°-60°	5249.3	76.8
0°-90°	6830.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6830.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2347	2347	2347	2347	2347	
5°	2337	2337	2327	2339	2339	222
15°	2237	2237	2239	2256	2259	630
25°	2047	2056	2069	2098	2105	943
35°	1781	1800	1834	1869	1881	1115
45°	1468	1500	1549	1598	1612	1134
55°	1127	1164	1232	1293	1315	1007
65°	768	807	893	961	983	757
75°	400	451	544	612	632	421
85°	85	122	144	142	139	102
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2346.7	2346.7	2346.7	2346.7	2346.7
2.5°	2346.7	2346.7	2334.5	2346.7	2346.7
5°	2336.9	2336.9	2327.2	2339.4	2339.4
7.5°	2319.8	2322.3	2315.0	2327.2	2327.2
10°	2297.9	2300.3	2295.4	2310.1	2310.1
12.5°	2268.6	2271.1	2268.6	2285.7	2285.7
15°	2236.9	2236.9	2239.3	2256.4	2258.9
17.5°	2195.4	2200.3	2205.2	2224.7	2224.7
20°	2149.1	2156.4	2163.7	2188.1	2188.1
22.5°	2102.7	2110.1	2119.8	2144.2	2149.1
25°	2046.6	2056.4	2068.6	2097.9	2105.2
27.5°	1988.1	1995.4	2014.9	2046.6	2049.1
30°	1922.2	1934.4	1958.8	1990.5	1997.8
32.5°	1853.9	1871.0	1897.8	1934.4	1941.7
35°	1780.7	1800.3	1834.4	1868.6	1880.8
37.5°	1712.4	1727.1	1766.1	1805.1	1812.5
40°	1631.9	1653.9	1695.4	1739.3	1749.0
42.5°	1551.4	1575.8	1622.2	1666.1	1683.2
45°	1468.5	1500.2	1549.0	1597.8	1612.4
47.5°	1385.6	1419.7	1470.9	1524.6	1541.7
50°	1305.1	1336.8	1392.9	1449.0	1466.1
52.5°	1214.8	1251.4	1312.4	1373.4	1390.4
55°	1127.0	1163.6	1231.9	1292.9	1314.8
57.5°	1036.7	1078.2	1148.9	1212.4	1231.9
60°	946.5	990.4	1066.0	1129.4	1153.8
62.5°	856.2	897.7	980.6	1044.0	1066.0
65°	768.4	807.4	892.8	961.1	983.1
67.5°	673.3	717.2	805.0	875.7	895.2
70°	580.6	624.5	717.2	790.4	809.9
72.5°	485.4	536.7	629.4	700.1	726.9
75°	400.1	451.3	544.0	612.3	631.8
77.5°	309.8	361.0	456.2	504.9	507.4
80°	222.0	280.5	361.0	380.5	390.3
82.5°	146.4	202.5	248.8	273.2	273.2
85°	85.4	122.0	143.9	141.5	139.0
87.5°	31.7	41.5	34.2	24.4	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)