

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: P302297

Luminaire Tested: **ZX-WO-55H830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302297
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-55H830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (336)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

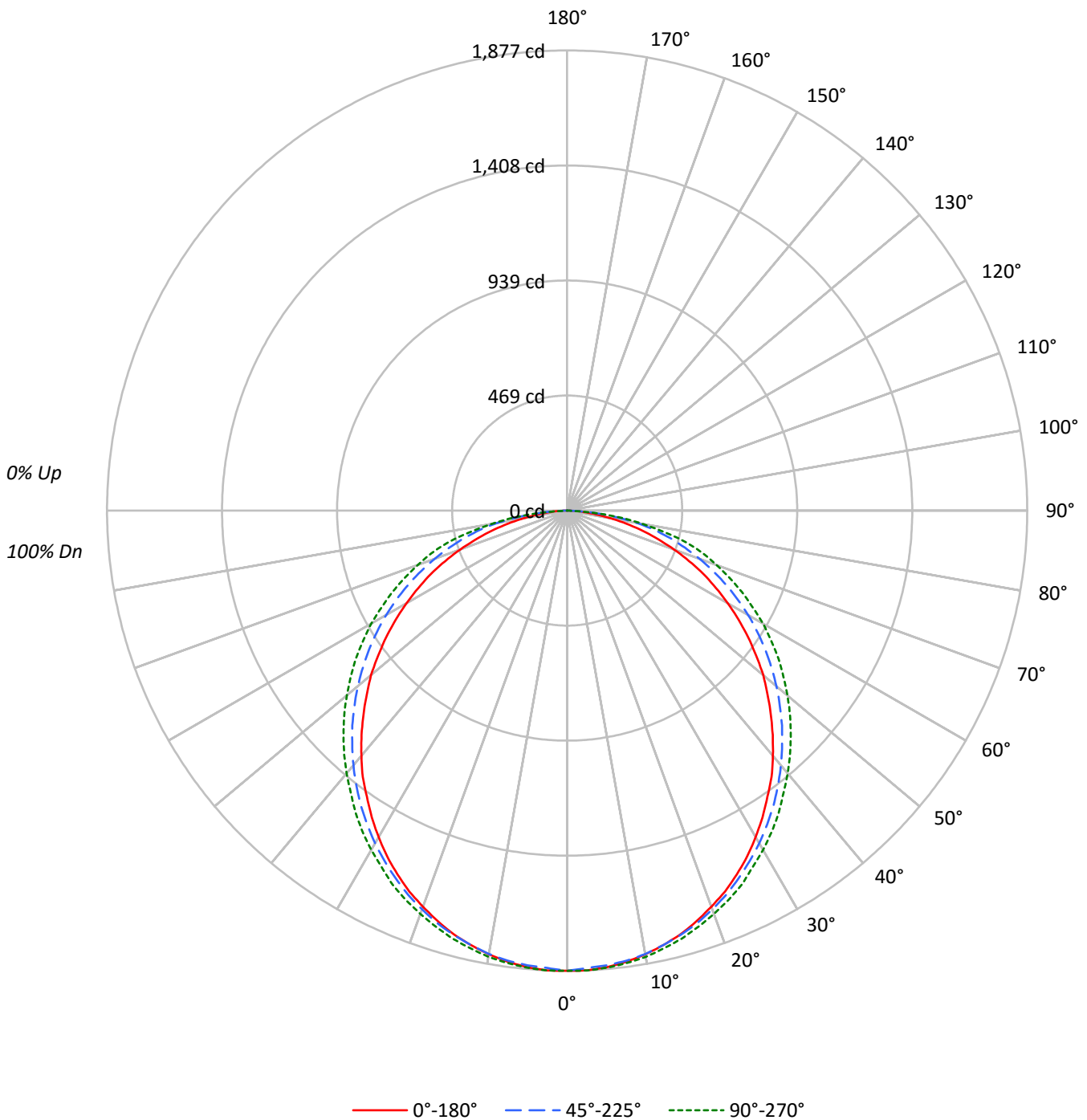
Lumens per Lamp: N/A
Luminaire Lumens: 5464.4 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40.9
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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	65	58	52	63	57	52	61	55	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2526	2526	2526
5°	2525	2514	2528
10°	2512	2509	2525
15°	2493	2495	2517
20°	2462	2479	2506
25°	2431	2457	2500
30°	2389	2435	2483
35°	2340	2410	2471
40°	2293	2382	2458
45°	2235	2358	2454
50°	2185	2332	2455
55°	2115	2312	2467
60°	2038	2295	2484
65°	1957	2274	2504
70°	1827	2257	2549
75°	1664	2262	2627
80°	1376	2238	2419
85°	1054	1777	1717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.5	3.2
10°-20°	506.8	9.3
20°-30°	764.6	14.0
30°-40°	917.9	16.8
40°-50°	954.6	17.5
50°-60°	878.0	16.1
60°-70°	699.7	12.8
70°-80°	443.4	8.1
80°-90°	122.0	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°	1448.9	26.5
0°-40°	2366.8	43.3
0°-60°	4199.4	76.8
0°-90°	5464.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5464.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1877	1877	1877	1877	1877	
5°	1870	1870	1862	1872	1872	177
15°	1790	1790	1792	1805	1807	504
25°	1637	1645	1655	1678	1684	754
35°	1425	1440	1468	1495	1505	892
45°	1175	1200	1239	1278	1290	907
55°	902	931	986	1034	1052	806
65°	615	646	714	769	786	606
75°	320	361	435	490	505	337
85°	68	98	115	113	111	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1877.3	1877.3	1877.3	1877.3	1877.3
2.5°	1877.3	1877.3	1867.6	1877.3	1877.3
5°	1869.5	1869.5	1861.7	1871.5	1871.5
7.5°	1855.9	1857.8	1852.0	1861.7	1861.7
10°	1838.3	1840.2	1836.3	1848.0	1848.0
12.5°	1814.9	1816.8	1814.9	1828.5	1828.5
15°	1789.5	1789.5	1791.5	1805.1	1807.1
17.5°	1756.3	1760.2	1764.1	1779.7	1779.7
20°	1719.3	1725.1	1731.0	1750.5	1750.5
22.5°	1682.2	1688.0	1695.8	1715.3	1719.3
25°	1637.3	1645.1	1654.9	1678.3	1684.1
27.5°	1590.5	1596.3	1611.9	1637.3	1639.2
30°	1537.8	1547.5	1567.0	1592.4	1598.3
32.5°	1483.1	1496.8	1518.2	1547.5	1553.4
35°	1424.6	1440.2	1467.5	1494.8	1504.6
37.5°	1369.9	1381.6	1412.9	1444.1	1449.9
40°	1305.5	1323.1	1356.3	1391.4	1399.2
42.5°	1241.1	1260.7	1297.7	1332.9	1346.5
45°	1174.8	1200.2	1239.2	1278.2	1289.9
47.5°	1108.4	1135.8	1176.7	1219.7	1233.3
50°	1044.0	1069.4	1114.3	1159.2	1172.8
52.5°	971.8	1001.1	1049.9	1098.7	1112.3
55°	901.6	930.9	985.5	1034.3	1051.8
57.5°	829.4	862.6	919.1	969.9	985.5
60°	757.2	792.3	852.8	903.5	923.0
62.5°	685.0	718.1	784.5	835.2	852.8
65°	614.7	645.9	714.2	768.9	786.4
67.5°	538.6	573.7	644.0	700.6	716.2
70°	464.5	499.6	573.7	632.3	647.9
72.5°	388.3	429.3	503.5	560.1	581.5
75°	320.0	361.0	435.2	489.8	505.4
77.5°	247.8	288.8	364.9	404.0	405.9
80°	177.6	224.4	288.8	304.4	312.2
82.5°	117.1	162.0	199.1	218.6	218.6
85°	68.3	97.6	115.1	113.2	111.2
87.5°	25.4	33.2	27.3	19.5	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)