

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: P302293

Luminaire Tested: **ZX-WO-35H830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302293
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-35H830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, HIGH PERFORMANCE LUMEN PACKAGE.
Light Source: (252)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

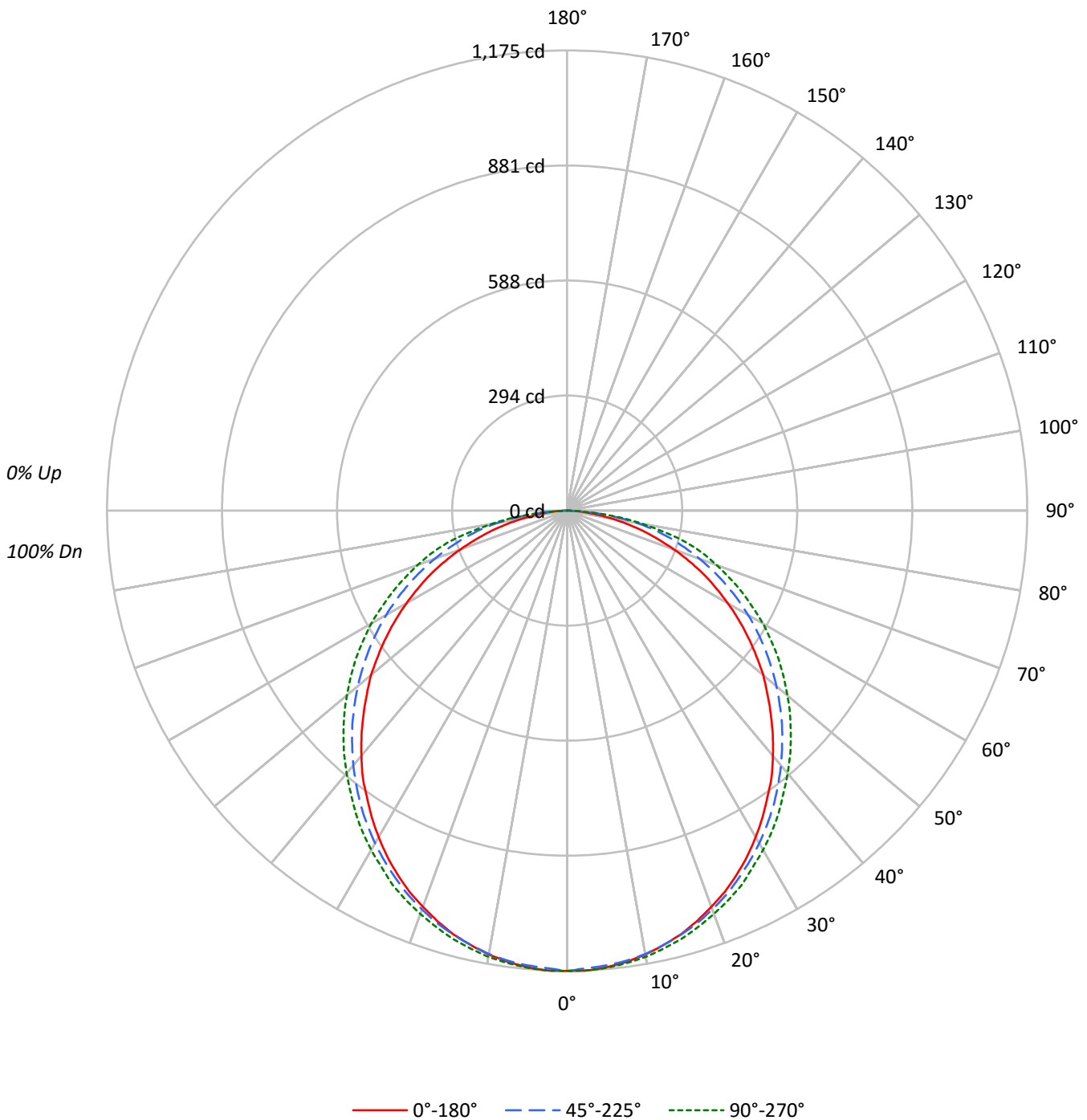
Lumens per Lamp: N/A
Luminaire Lumens: 3421.3 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
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°	1581	1581	1581
5°	1581	1574	1583
10°	1573	1571	1581
15°	1561	1562	1576
20°	1541	1552	1569
25°	1522	1538	1565
30°	1496	1524	1555
35°	1465	1509	1547
40°	1436	1492	1539
45°	1400	1476	1537
50°	1368	1460	1537
55°	1324	1447	1545
60°	1276	1437	1555
65°	1225	1424	1568
70°	1144	1413	1596
75°	1042	1417	1645
80°	862	1401	1515
85°	661	1113	1074



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.2
10°-20°	317.3	9.3
20°-30°	478.7	14.0
30°-40°	574.7	16.8
40°-50°	597.7	17.5
50°-60°	549.7	16.1
60°-70°	438.1	12.8
70°-80°	277.6	8.1
80°-90°	76.3	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°	907.2	26.5
0°-40°	1481.9	43.3
0°-60°	2629.3	76.8
0°-90°	3421.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3421.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1170	1170	1166	1172	1172	111
15°	1120	1120	1122	1130	1131	316
25°	1025	1030	1036	1051	1054	472
35°	892	902	919	936	942	559
45°	736	751	776	800	808	568
55°	564	583	617	648	659	505
65°	385	404	447	481	492	379
75°	200	226	272	307	316	211
85°	43	61	72	71	70	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.4	1175.4	1175.4	1175.4	1175.4
2.5°	1175.4	1175.4	1169.3	1175.4	1175.4
5°	1170.5	1170.5	1165.6	1171.7	1171.7
7.5°	1162.0	1163.2	1159.5	1165.6	1165.6
10°	1151.0	1152.2	1149.7	1157.1	1157.1
12.5°	1136.3	1137.5	1136.3	1144.9	1144.9
15°	1120.4	1120.4	1121.6	1130.2	1131.4
17.5°	1099.7	1102.1	1104.5	1114.3	1114.3
20°	1076.4	1080.1	1083.8	1096.0	1096.0
22.5°	1053.2	1056.9	1061.8	1074.0	1076.4
25°	1025.1	1030.0	1036.1	1050.8	1054.4
27.5°	995.8	999.5	1009.2	1025.1	1026.3
30°	962.8	968.9	981.1	997.0	1000.7
32.5°	928.6	937.1	950.6	968.9	972.6
35°	891.9	901.7	918.8	935.9	942.0
37.5°	857.7	865.1	884.6	904.2	907.8
40°	817.4	828.4	849.2	871.2	876.1
42.5°	777.1	789.3	812.5	834.5	843.1
45°	735.5	751.4	775.9	800.3	807.6
47.5°	694.0	711.1	736.8	763.6	772.2
50°	653.7	669.6	697.7	725.8	734.3
52.5°	608.5	626.8	657.3	687.9	696.4
55°	564.5	582.8	617.0	647.6	658.6
57.5°	519.3	540.1	575.5	607.3	617.0
60°	474.1	496.1	533.9	565.7	577.9
62.5°	428.9	449.6	491.2	522.9	533.9
65°	384.9	404.4	447.2	481.4	492.4
67.5°	337.2	359.2	403.2	438.6	448.4
70°	290.8	312.8	359.2	395.9	405.6
72.5°	243.1	268.8	315.2	350.7	364.1
75°	200.4	226.0	272.5	306.7	316.5
77.5°	155.2	180.8	228.5	252.9	254.1
80°	111.2	140.5	180.8	190.6	195.5
82.5°	73.3	101.4	124.6	136.8	136.8
85°	42.8	61.1	72.1	70.9	69.6
87.5°	15.9	20.8	17.1	12.2	8.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)