

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: P302412

Luminaire Tested: **ZX-WO-40L830-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302412
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-40L830-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (168)3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

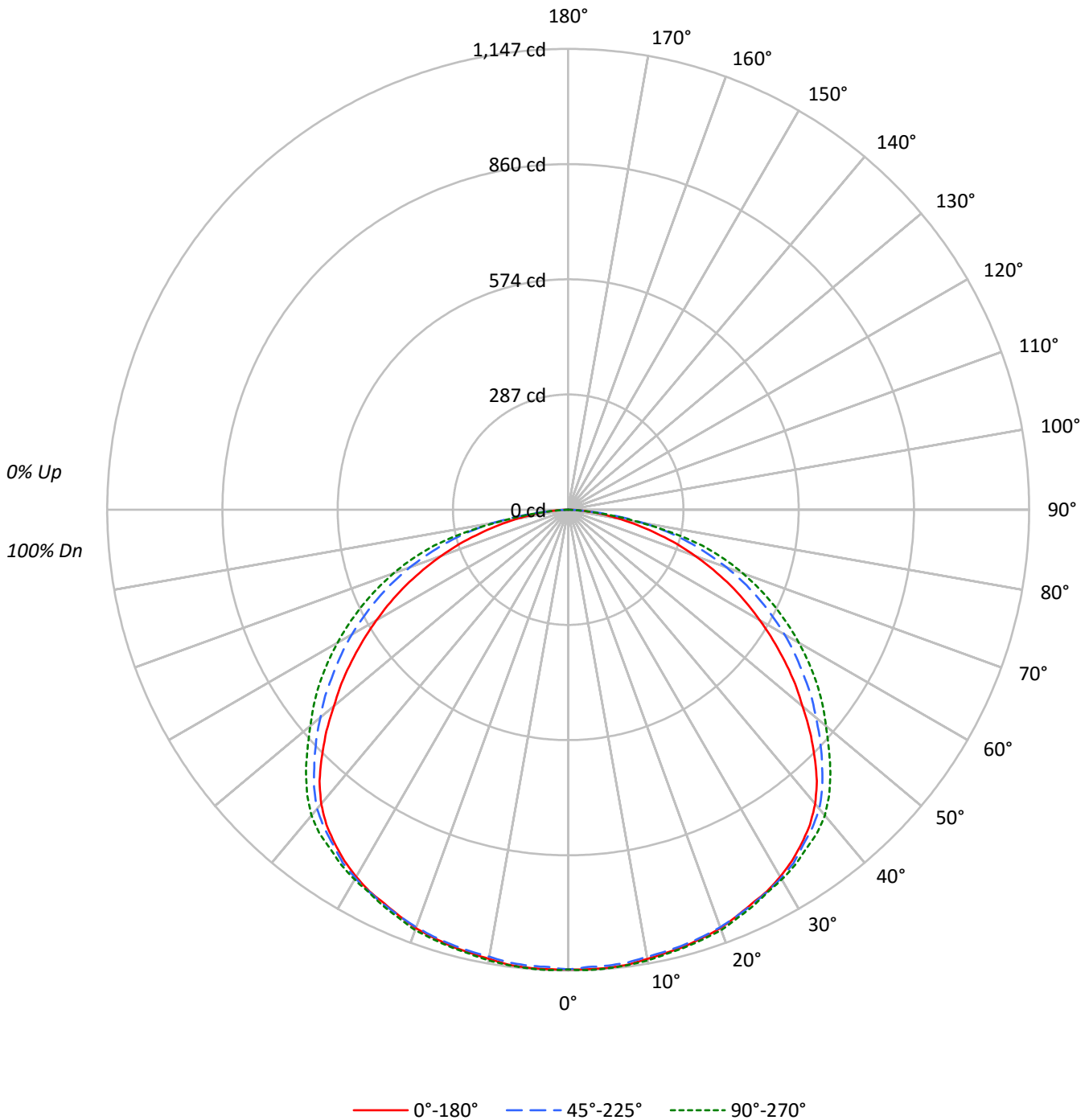
Lumens per Lamp: N/A
Luminaire Lumens: 3786.6 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.37 / 1.39 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.6
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	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°	1540	1540	1540
5°	1546	1539	1548
10°	1551	1544	1556
15°	1566	1561	1570
20°	1587	1583	1595
25°	1606	1610	1616
30°	1639	1645	1652
35°	1665	1674	1693
40°	1679	1707	1745
45°	1649	1700	1756
50°	1593	1685	1752
55°	1543	1675	1772
60°	1482	1673	1785
65°	1418	1664	1801
70°	1320	1646	1820
75°	1182	1606	1794
80°	984	1481	1378
85°	743	868	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	2.9
10°-20°	318.1	8.4
20°-30°	501.7	13.2
30°-40°	640.5	16.9
40°-50°	689.9	18.2
50°-60°	635.7	16.8
60°-70°	508.4	13.4
70°-80°	312.1	8.2
80°-90°	71.2	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°	928.7	24.5
0°-40°	1569.2	41.4
0°-60°	2894.8	76.4
0°-90°	3786.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3786.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1145	1145	1139	1146	1146	109
15°	1124	1126	1120	1127	1127	318
25°	1082	1083	1084	1090	1088	500
35°	1014	1016	1019	1030	1031	634
45°	866	876	893	916	923	667
55°	658	675	714	746	756	588
65°	445	475	523	555	566	440
75°	227	263	309	337	345	242
85°	48	64	56	50	47	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1144.6	1144.6	1144.6	1144.6	1144.6
2.5°	1144.6	1145.9	1139.2	1145.9	1147.2
5°	1144.6	1144.6	1139.2	1145.9	1145.9
7.5°	1141.9	1141.9	1136.6	1143.2	1143.2
10°	1135.2	1135.2	1129.9	1136.6	1139.2
12.5°	1129.9	1129.9	1125.9	1132.5	1132.5
15°	1124.5	1125.9	1120.5	1127.2	1127.2
17.5°	1116.5	1116.5	1113.8	1119.2	1120.5
20°	1108.5	1108.5	1105.8	1112.5	1113.8
22.5°	1095.1	1096.4	1095.1	1100.4	1100.4
25°	1081.7	1083.1	1084.4	1089.8	1088.4
27.5°	1071.0	1072.4	1072.4	1077.7	1073.7
30°	1055.0	1059.0	1059.0	1061.7	1063.0
32.5°	1036.3	1041.6	1043.0	1048.3	1049.6
35°	1013.5	1016.2	1018.9	1029.6	1030.9
37.5°	988.1	994.8	997.5	1012.2	1016.2
40°	956.0	964.1	972.1	990.8	993.5
42.5°	915.9	925.3	936.0	956.0	961.4
45°	866.5	875.8	893.2	915.9	922.6
47.5°	815.6	826.3	850.4	874.5	879.8
50°	760.8	776.9	804.9	833.0	837.0
52.5°	711.3	727.4	762.2	791.6	798.3
55°	657.9	675.2	714.0	746.1	755.5
57.5°	604.4	627.1	668.6	700.7	710.0
60°	550.9	575.0	621.8	651.2	663.2
62.5°	498.7	525.5	572.3	605.7	615.1
65°	445.3	474.7	522.8	554.9	565.6
67.5°	390.4	421.2	472.0	504.1	514.8
70°	335.6	370.4	418.5	453.3	462.6
72.5°	283.5	315.6	363.7	394.4	406.5
75°	227.3	263.4	308.9	337.0	345.0
77.5°	176.5	211.3	251.4	268.8	266.1
80°	127.0	163.1	191.2	185.9	177.8
82.5°	85.6	115.0	119.0	111.0	108.3
85°	48.1	64.2	56.2	49.5	46.8
87.5°	20.1	17.4	9.4	4.0	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)