

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: P302446

Luminaire Tested: **ZX-WO-60L930-UNV-24-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P302446
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-60L930-UNV-24-STD
Description: CORELITE CLASS RX 2X2 LED LUMINAIRE.
FLAT LENS, STANDARD LUMEN PACKAGE.
Light Source: (392)3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4642.3 lumens
Efficiency: N/A
Efficacy: 105.3 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

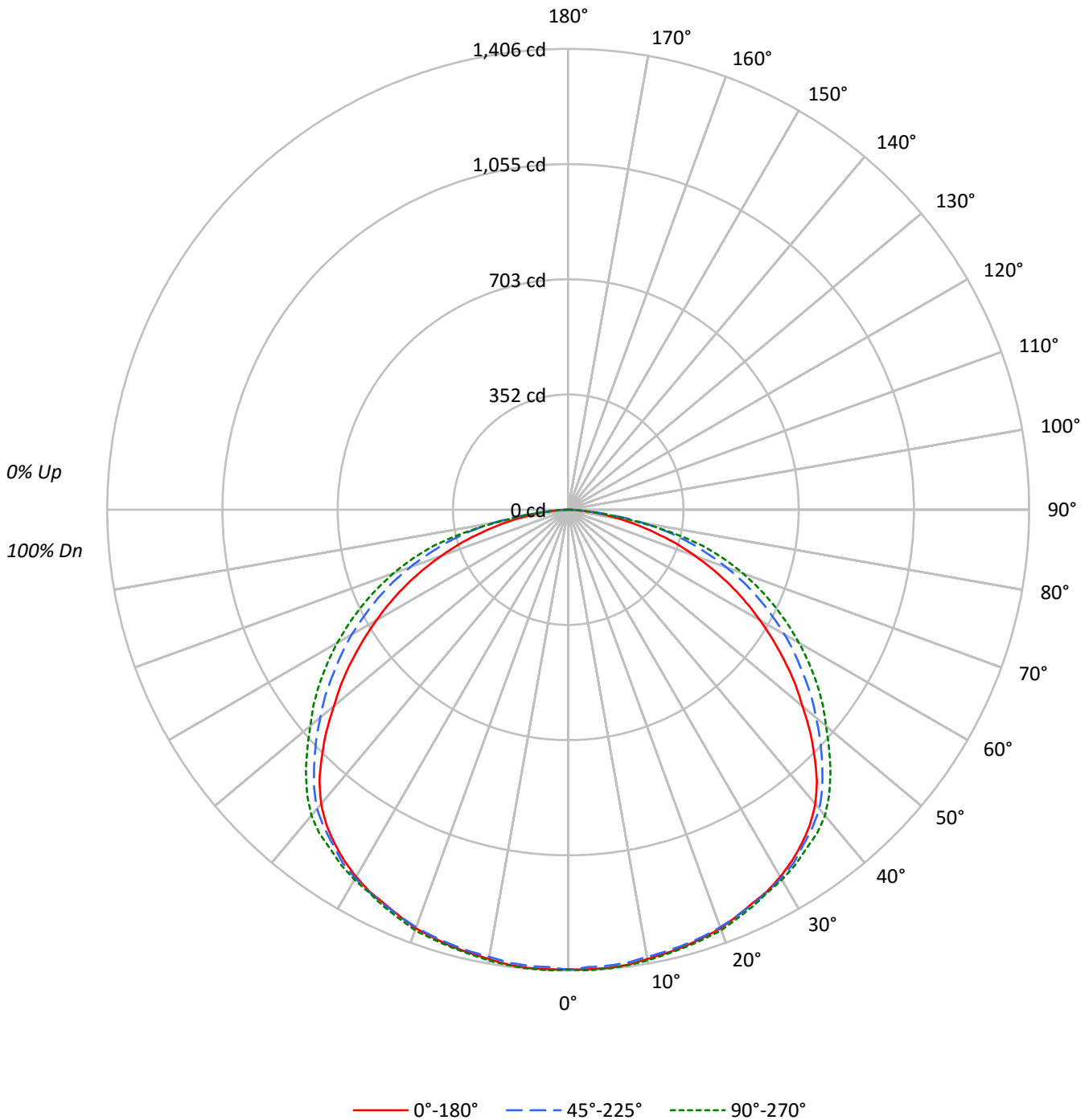
Input Watts (W): 44.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1888	1888	1888
5°	1895	1886	1897
10°	1902	1893	1908
15°	1920	1913	1925
20°	1946	1941	1955
25°	1969	1974	1981
30°	2009	2017	2025
35°	2041	2052	2076
40°	2059	2093	2139
45°	2021	2084	2152
50°	1953	2066	2148
55°	1892	2054	2173
60°	1817	2051	2188
65°	1738	2041	2208
70°	1619	2019	2231
75°	1449	1969	2198
80°	1206	1816	1689
85°	911	1064	886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	2.9
10°-20°	390.0	8.4
20°-30°	615.1	13.2
30°-40°	785.3	16.9
40°-50°	845.9	18.2
50°-60°	779.4	16.8
60°-70°	623.3	13.4
70°-80°	382.6	8.2
80°-90°	87.3	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°	1138.6	24.5
0°-40°	1923.8	41.4
0°-60°	3549.0	76.5
0°-90°	4642.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4642.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1403	1403	1397	1405	1405	134
15°	1379	1380	1374	1382	1382	390
25°	1326	1328	1330	1336	1334	613
35°	1243	1246	1249	1262	1264	777
45°	1062	1074	1095	1123	1131	818
55°	806	828	875	915	926	721
65°	546	582	641	680	693	539
75°	279	323	379	413	423	297
85°	59	79	69	61	57	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.2	1403.2	1403.2	1403.2	1403.2
2.5°	1403.2	1404.9	1396.7	1404.9	1406.5
5°	1403.2	1403.2	1396.7	1404.9	1404.9
7.5°	1400.0	1400.0	1393.4	1401.6	1401.6
10°	1391.8	1391.8	1385.2	1393.4	1396.7
12.5°	1385.2	1385.2	1380.3	1388.5	1388.5
15°	1378.7	1380.3	1373.7	1381.9	1381.9
17.5°	1368.8	1368.8	1365.5	1372.1	1373.7
20°	1359.0	1359.0	1355.7	1363.9	1365.5
22.5°	1342.6	1344.2	1342.6	1349.2	1349.2
25°	1326.2	1327.8	1329.5	1336.0	1334.4
27.5°	1313.1	1314.7	1314.7	1321.3	1316.4
30°	1293.4	1298.3	1298.3	1301.6	1303.3
32.5°	1270.5	1277.0	1278.7	1285.2	1286.9
35°	1242.6	1245.9	1249.2	1262.3	1263.9
37.5°	1211.5	1219.6	1222.9	1241.0	1245.9
40°	1172.1	1181.9	1191.8	1214.7	1218.0
42.5°	1122.9	1134.4	1147.5	1172.1	1178.7
45°	1062.3	1073.7	1095.1	1122.9	1131.1
47.5°	1000.0	1013.1	1042.6	1072.1	1078.7
50°	932.8	952.4	986.9	1021.3	1026.2
52.5°	872.1	891.8	934.4	970.5	978.7
55°	806.5	827.9	875.4	914.7	926.2
57.5°	741.0	768.8	819.7	859.0	870.5
60°	675.4	704.9	762.3	798.3	813.1
62.5°	611.5	644.2	701.6	742.6	754.1
65°	545.9	582.0	641.0	680.3	693.4
67.5°	478.7	516.4	578.7	618.0	631.1
70°	411.5	454.1	513.1	555.7	567.2
72.5°	347.5	386.9	445.9	483.6	498.4
75°	278.7	322.9	378.7	413.1	422.9
77.5°	216.4	259.0	308.2	329.5	326.2
80°	155.7	200.0	234.4	227.9	218.0
82.5°	104.9	141.0	145.9	136.1	132.8
85°	59.0	78.7	68.9	60.7	57.4
87.5°	24.6	21.3	11.5	4.9	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)