

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: P220249

Luminaire Tested: **Z3-WL-2L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35865)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-2L30-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3928.5 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.31 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

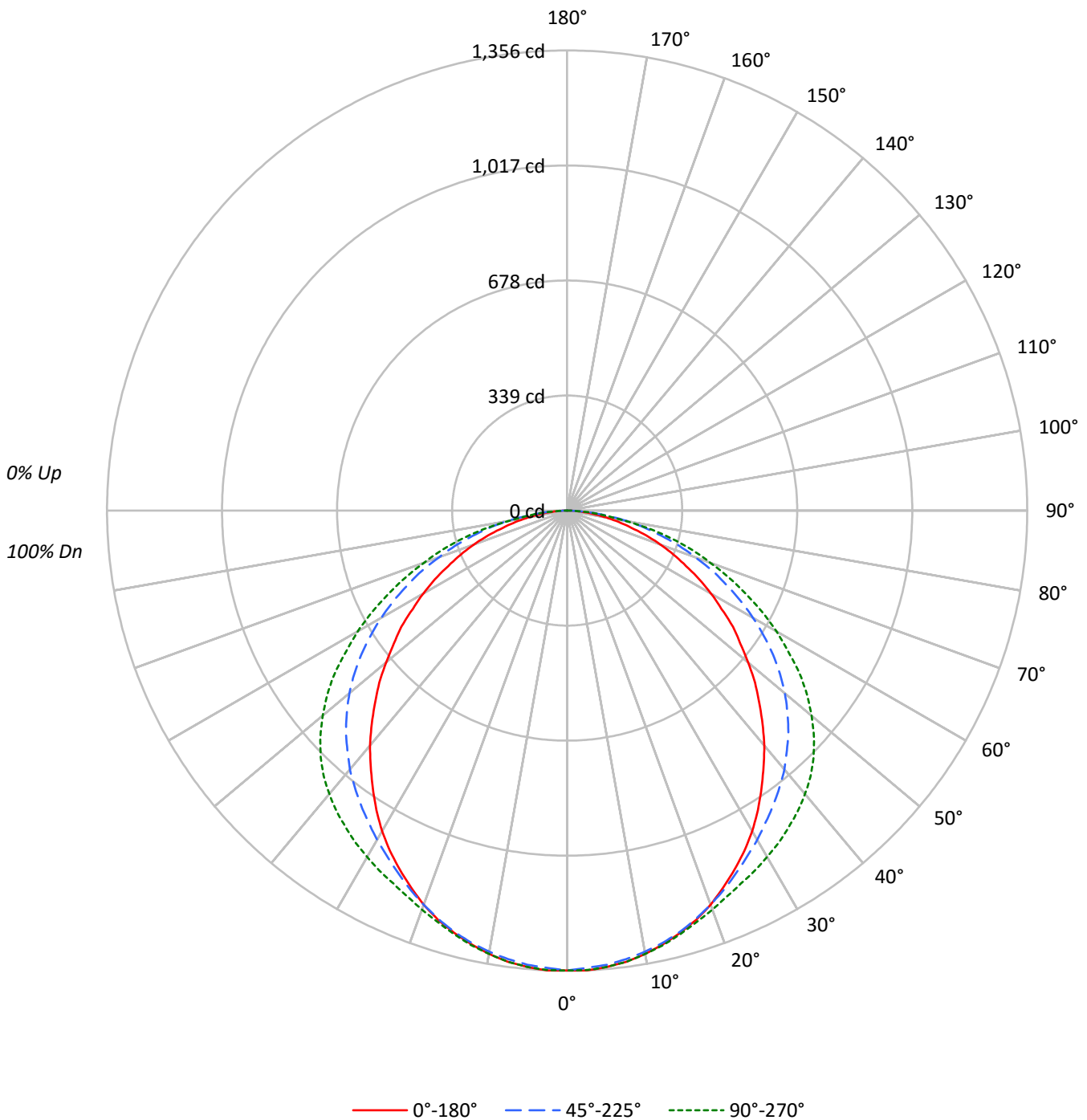
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1823	1823	1823
5°	1823	1814	1823
10°	1812	1804	1812
15°	1794	1790	1799
20°	1769	1769	1792
25°	1733	1750	1800
30°	1694	1741	1831
35°	1640	1740	1870
40°	1587	1749	1915
45°	1522	1754	1954
50°	1458	1753	1968
55°	1399	1737	1962
60°	1319	1703	1919
65°	1230	1647	1849
70°	1148	1581	1765
75°	1018	1497	1658
80°	894	1396	1327
85°	761	1101	1081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	3.3
10°-20°	363.4	9.3
20°-30°	547.2	13.9
30°-40°	666.7	17.0
40°-50°	706.8	18.0
50°-60°	649.6	16.5
60°-70°	497.6	12.7
70°-80°	290.8	7.4
80°-90°	78.4	2.0
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°	1038.6	26.4
0°-40°	1705.3	43.4
0°-60°	3061.7	77.9
0°-90°	3928.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3928.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1355	1355	1355	1355	1355	
5°	1350	1347	1343	1350	1350	128
15°	1288	1288	1285	1292	1292	363
25°	1167	1172	1179	1203	1212	538
35°	998	1011	1059	1118	1138	625
45°	800	831	922	1001	1027	618
55°	596	643	740	813	836	530
65°	386	437	517	571	581	385
75°	196	240	288	316	319	211
85°	49	69	71	73	70	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1355.1	1355.1	1355.1	1355.1	1355.1
2.5°	1356.4	1353.8	1348.6	1355.1	1355.1
5°	1349.9	1347.3	1343.4	1349.9	1349.9
7.5°	1340.8	1338.2	1333.0	1340.8	1340.8
10°	1326.5	1325.2	1320.1	1327.8	1326.5
12.5°	1308.4	1308.4	1304.5	1311.0	1311.0
15°	1287.6	1287.6	1285.0	1291.5	1291.5
17.5°	1264.3	1264.3	1261.7	1270.8	1270.8
20°	1235.8	1233.2	1235.8	1248.7	1251.3
22.5°	1202.0	1203.3	1208.5	1225.4	1230.6
25°	1167.0	1172.2	1178.7	1203.3	1212.4
27.5°	1130.7	1135.9	1148.9	1183.9	1196.9
30°	1090.5	1097.0	1120.4	1163.1	1178.7
32.5°	1046.4	1056.8	1089.2	1142.4	1160.6
35°	998.5	1011.4	1059.4	1117.8	1138.5
37.5°	950.5	968.6	1028.3	1094.4	1116.5
40°	903.8	923.3	995.9	1067.2	1090.5
42.5°	851.9	877.9	958.3	1034.8	1062.0
45°	800.1	831.2	922.0	1001.1	1027.0
47.5°	750.8	784.5	880.5	962.2	986.8
50°	696.3	740.4	837.7	915.5	940.1
52.5°	643.2	691.1	791.0	870.1	890.8
55°	596.5	643.2	740.4	813.0	836.4
57.5°	539.4	595.2	687.3	756.0	771.5
60°	490.2	538.1	632.8	696.3	713.2
62.5°	439.6	491.5	577.0	631.5	648.4
65°	386.4	437.0	517.4	570.6	580.9
67.5°	339.7	389.0	462.9	503.1	516.1
70°	291.8	334.6	402.0	442.2	448.7
72.5°	245.1	287.9	346.2	377.3	386.4
75°	195.8	239.9	287.9	316.4	319.0
77.5°	155.6	193.2	234.7	250.3	251.6
80°	115.4	149.1	180.2	178.9	171.2
82.5°	79.1	105.0	121.9	119.3	114.1
85°	49.3	68.7	71.3	72.6	70.0
87.5°	22.0	27.2	29.8	29.8	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)