

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: P220180

Luminaire Tested: **Z3-WN-6L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220180
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35860)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-6L30-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4232.2 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

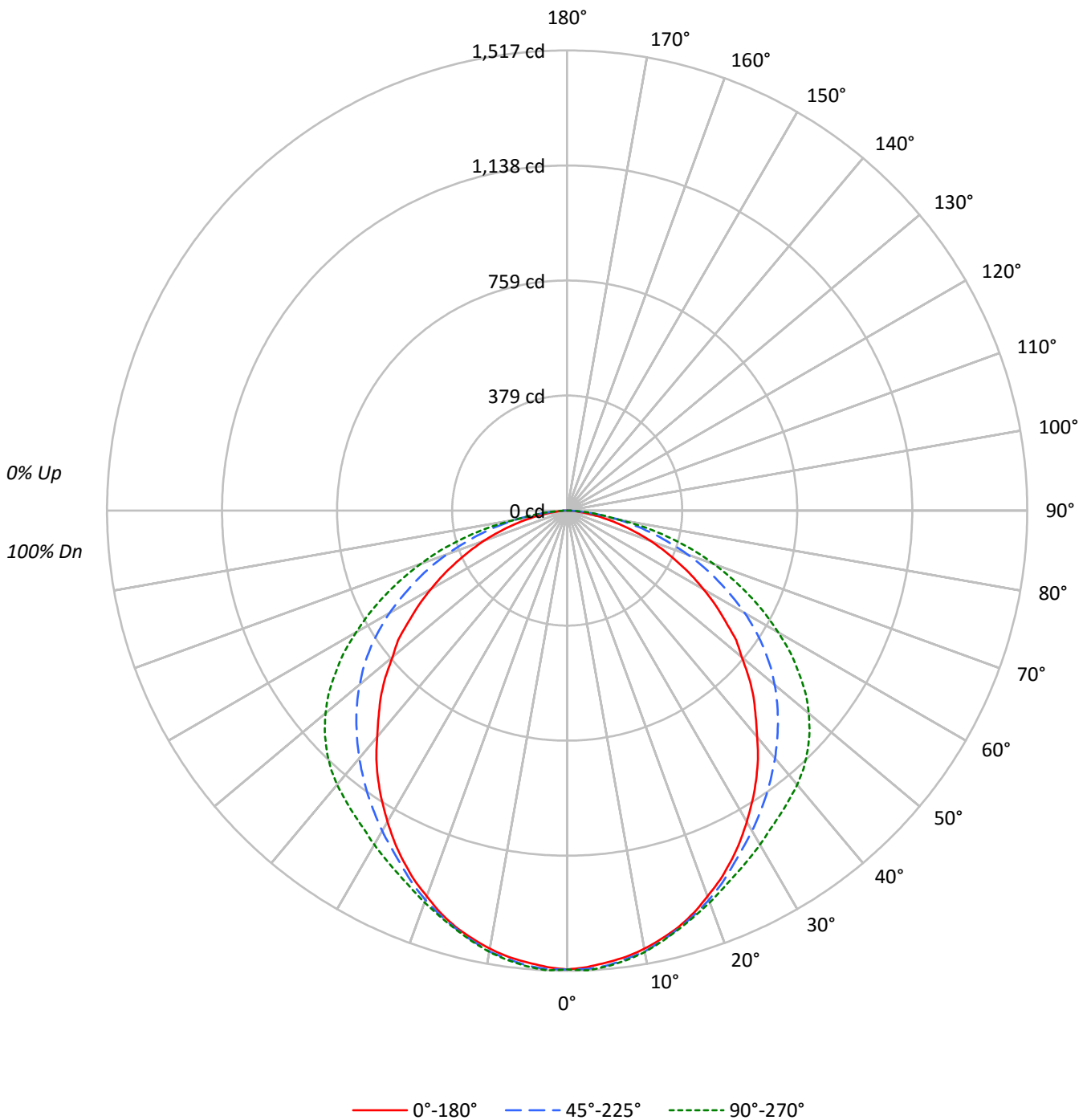
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4071	4071	4071
5°	4039	4069	4075
10°	4008	4032	4038
15°	3958	3970	3977
20°	3875	3912	3937
25°	3790	3835	3920
30°	3680	3789	3952
35°	3567	3761	4020
40°	3422	3745	4145
45°	3307	3741	4266
50°	3144	3739	4353
55°	2989	3718	4375
60°	2793	3641	4324
65°	2565	3499	4223
70°	2308	3324	4048
75°	1935	3051	3710
80°	1492	2681	2713
85°	1081	1825	1961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	3.4
10°-20°	401.7	9.5
20°-30°	597.6	14.1
30°-40°	719.7	17.0
40°-50°	762.2	18.0
50°-60°	704.8	16.7
60°-70°	536.7	12.7
70°-80°	298.8	7.1
80°-90°	68.0	1.6
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°	1142.0	27.0
0°-40°	1861.7	44.0
0°-60°	3328.7	78.7
0°-90°	4232.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4232.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1495	1500	1506	1508	1508	142
15°	1421	1423	1425	1427	1427	400
25°	1276	1278	1292	1309	1320	587
35°	1086	1097	1145	1202	1224	678
45°	869	895	983	1082	1121	668
55°	637	690	792	895	933	571
65°	403	455	550	633	663	400
75°	186	228	293	342	357	199
85°	35	48	59	64	64	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1506.2	1508.4	1512.8	1517.1	1517.1
5°	1495.3	1499.6	1506.2	1508.4	1508.4
7.5°	1484.3	1486.5	1490.9	1495.3	1495.3
10°	1466.8	1469.0	1475.5	1477.7	1477.7
12.5°	1444.9	1447.1	1451.5	1453.7	1453.7
15°	1420.8	1423.0	1425.2	1427.4	1427.4
17.5°	1390.2	1392.4	1396.7	1401.1	1401.1
20°	1353.0	1359.5	1366.1	1370.5	1374.8
22.5°	1317.9	1320.1	1331.1	1342.0	1346.4
25°	1276.3	1278.5	1291.7	1309.2	1320.1
27.5°	1232.5	1239.1	1254.4	1285.1	1296.0
30°	1184.4	1193.1	1219.4	1256.6	1271.9
32.5°	1136.2	1145.0	1182.2	1228.2	1245.7
35°	1085.9	1096.8	1145.0	1201.9	1223.8
37.5°	1033.3	1046.5	1105.6	1173.4	1201.9
40°	974.2	996.1	1066.2	1145.0	1180.0
42.5°	919.5	945.8	1024.6	1114.3	1153.7
45°	869.1	895.4	983.0	1081.5	1120.9
47.5°	812.2	845.0	939.2	1044.3	1083.7
50°	750.9	792.5	893.2	1000.5	1039.9
52.5°	702.7	740.0	845.0	952.3	991.7
55°	637.1	689.6	792.5	895.4	932.6
57.5°	580.1	628.3	735.6	836.3	873.5
60°	518.9	569.2	676.5	770.6	803.5
62.5°	461.9	510.1	613.0	704.9	735.6
65°	402.8	455.4	549.5	632.7	663.3
67.5°	345.9	396.3	488.2	564.8	588.9
70°	293.4	337.1	422.5	486.0	514.5
72.5°	236.4	280.2	354.7	413.8	437.8
75°	186.1	227.7	293.4	341.5	356.8
77.5°	137.9	177.3	229.9	267.1	273.7
80°	96.3	129.2	173.0	179.5	175.1
82.5°	61.3	85.4	109.5	111.7	111.7
85°	35.0	48.2	59.1	63.5	63.5
87.5°	13.1	17.5	21.9	21.9	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)