

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: P220030

Luminaire Tested: **Z3-WD-3L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35875)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-3L30-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3555.1 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

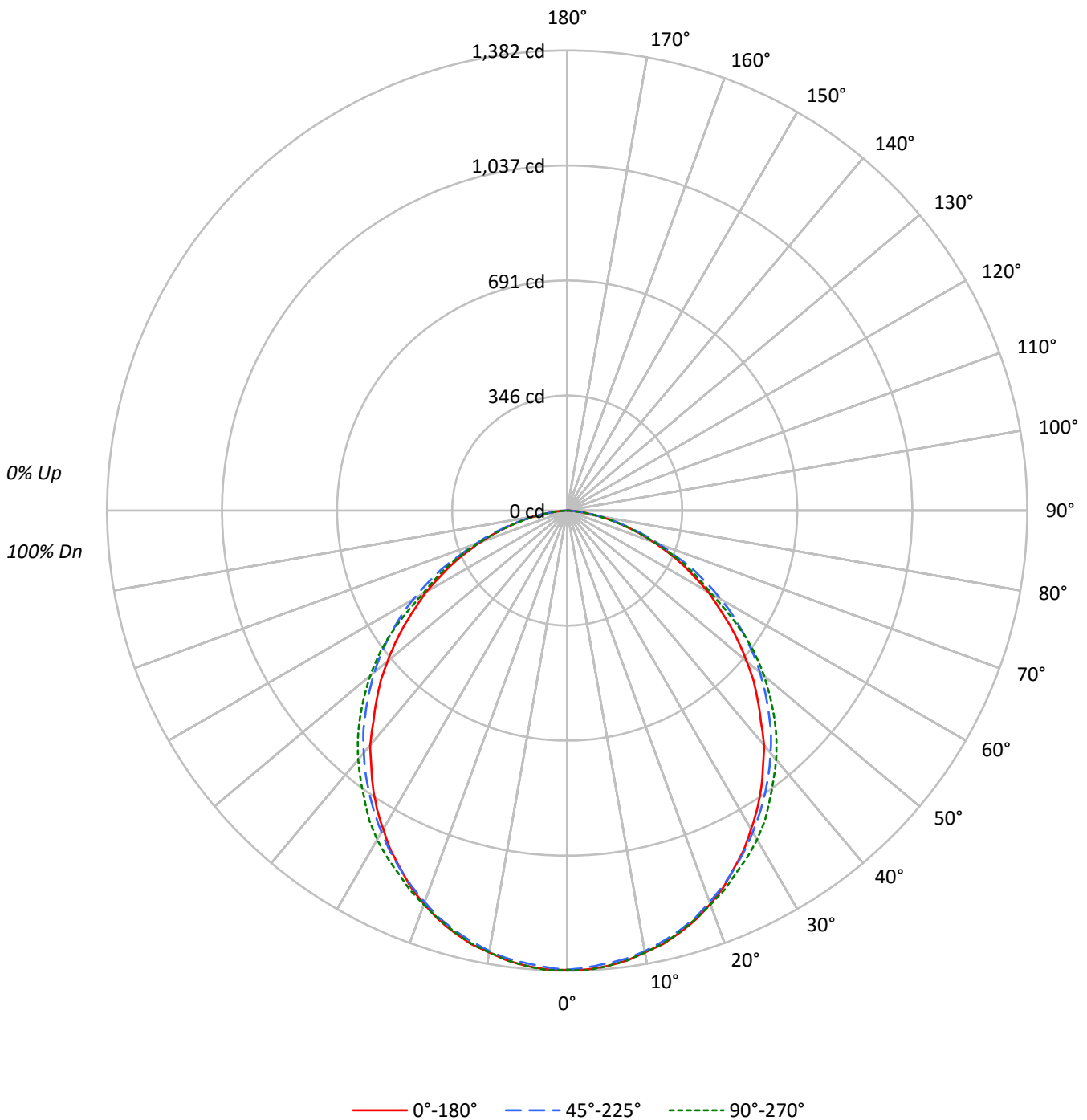
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3712	3712	3712
5°	3710	3689	3710
10°	3682	3671	3682
15°	3653	3637	3648
20°	3600	3583	3606
25°	3519	3525	3566
30°	3433	3464	3545
35°	3340	3406	3484
40°	3233	3339	3430
45°	3083	3258	3350
50°	2946	3165	3232
55°	2784	3039	3039
60°	2633	2882	2698
65°	2426	2643	2515
70°	2177	2304	2209
75°	1856	1960	1856
80°	1460	1523	1429
85°	929	929	744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	3.7
10°-20°	368.9	10.4
20°-30°	549.2	15.4
30°-40°	649.3	18.3
40°-50°	655.7	18.4
50°-60°	566.8	15.9
60°-70°	395.7	11.1
70°-80°	199.6	5.6
80°-90°	39.8	1.1
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°	1048.3	29.5
0°-40°	1697.5	47.8
0°-60°	2920.0	82.1
0°-90°	3555.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3555.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1380	1380	1380	1380	1380	
5°	1374	1372	1366	1374	1374	130
15°	1311	1309	1305	1309	1309	370
25°	1185	1187	1187	1199	1201	546
35°	1017	1021	1037	1057	1061	635
45°	810	822	856	878	880	626
55°	594	620	648	656	648	531
65°	381	405	415	393	395	376
75°	178	196	188	182	178	192
85°	30	34	30	26	24	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1379.6	1379.6	1379.6	1379.6	1379.6
2.5°	1379.6	1379.6	1373.5	1381.6	1381.6
5°	1373.5	1371.5	1365.5	1373.5	1373.5
7.5°	1363.5	1361.5	1357.5	1363.5	1363.5
10°	1347.5	1347.5	1343.5	1349.5	1347.5
12.5°	1333.4	1331.4	1325.4	1331.4	1331.4
15°	1311.4	1309.4	1305.4	1309.4	1309.4
17.5°	1287.3	1283.3	1281.3	1285.3	1285.3
20°	1257.2	1255.2	1251.2	1259.2	1259.2
22.5°	1225.2	1221.1	1221.1	1229.2	1233.2
25°	1185.1	1187.1	1187.1	1199.1	1201.1
27.5°	1149.0	1149.0	1153.0	1167.0	1173.0
30°	1104.8	1108.9	1114.9	1132.9	1140.9
32.5°	1062.7	1068.8	1076.8	1098.8	1104.8
35°	1016.6	1020.6	1036.7	1056.7	1060.7
37.5°	966.5	970.5	994.6	1016.6	1018.6
40°	920.4	922.4	950.4	970.5	976.5
42.5°	862.2	876.3	906.3	926.4	930.4
45°	810.1	822.1	856.2	878.3	880.3
47.5°	760.0	772.0	806.1	824.1	826.1
50°	703.8	719.9	755.9	770.0	772.0
52.5°	649.7	669.7	703.8	715.8	713.8
55°	593.5	619.6	647.7	655.7	647.7
57.5°	537.4	567.5	593.5	591.5	573.5
60°	489.3	511.3	535.4	517.3	501.3
62.5°	431.1	459.2	473.2	449.2	447.2
65°	381.0	405.0	415.1	393.0	395.0
67.5°	326.8	350.9	346.9	340.9	336.9
70°	276.7	300.8	292.8	284.7	280.7
72.5°	228.6	248.6	240.6	234.6	228.6
75°	178.5	196.5	188.5	182.5	178.5
77.5°	136.4	146.4	142.4	136.4	132.3
80°	94.2	104.3	98.3	92.2	92.2
82.5°	58.1	66.2	60.2	56.1	54.1
85°	30.1	34.1	30.1	26.1	24.1
87.5°	12.0	12.0	8.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)