

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: P35865

Luminaire Tested: **Z3-WL-1L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35865
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-1L30-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: 3029.6 lumens
Efficiency: N/A
Efficacy: 131.7 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

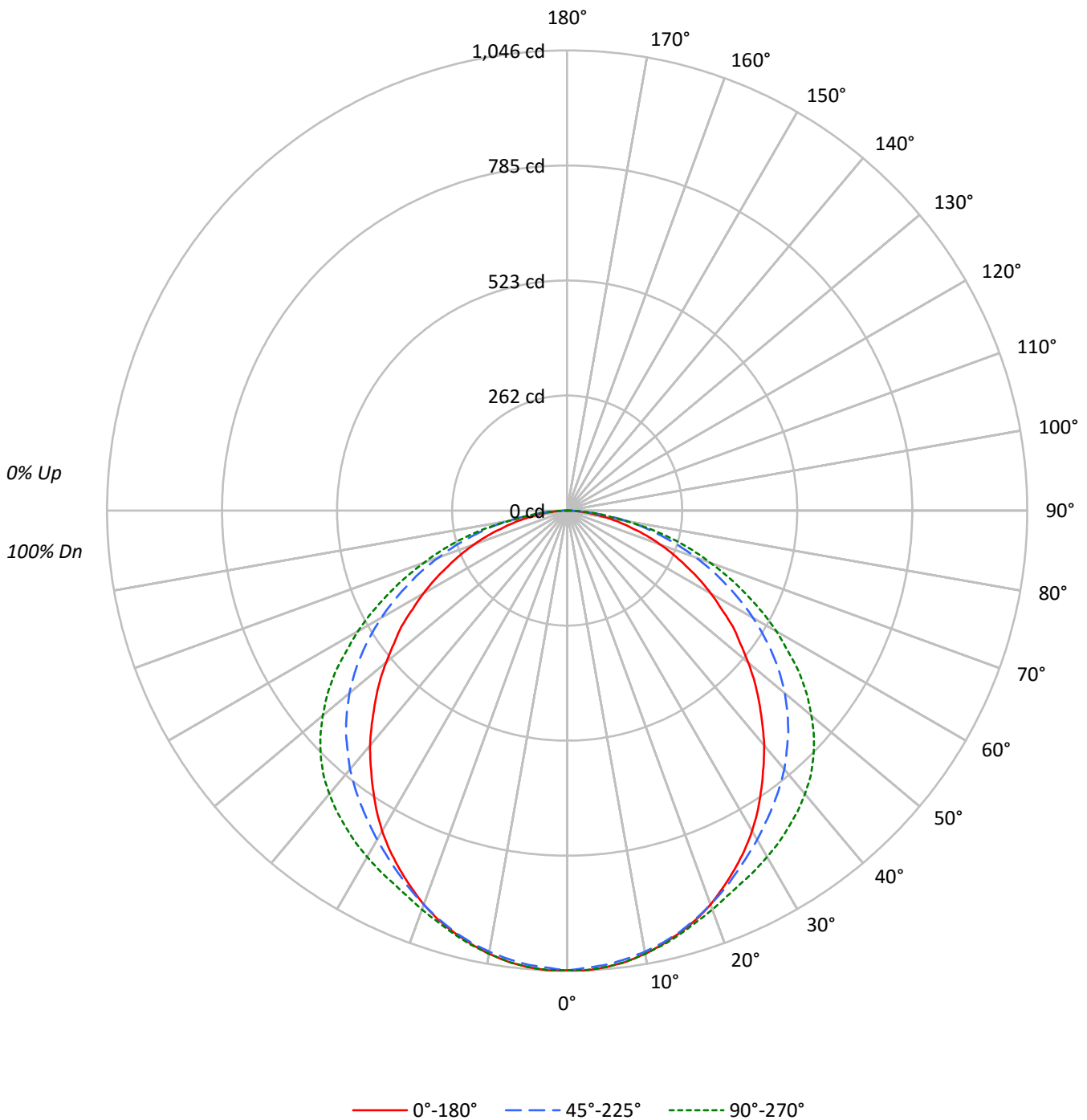
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1406	1406	1406
5°	1406	1399	1406
10°	1398	1391	1398
15°	1383	1380	1387
20°	1365	1365	1382
25°	1336	1349	1388
30°	1307	1342	1412
35°	1265	1342	1442
40°	1224	1349	1477
45°	1174	1353	1507
50°	1124	1352	1518
55°	1079	1339	1513
60°	1017	1313	1480
65°	949	1270	1426
70°	885	1220	1361
75°	785	1154	1279
80°	690	1077	1023
85°	587	849	834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	3.3
10°-20°	280.3	9.3
20°-30°	422.0	13.9
30°-40°	514.2	17.0
40°-50°	545.1	18.0
50°-60°	500.9	16.5
60°-70°	383.8	12.7
70°-80°	224.2	7.4
80°-90°	60.5	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°	800.9	26.4
0°-40°	1315.1	43.4
0°-60°	2361.1	77.9
0°-90°	3029.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3029.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1045	1045	1045	1045	1045	
5°	1041	1039	1036	1041	1041	99
15°	993	993	991	996	996	280
25°	900	904	909	928	935	415
35°	770	780	817	862	878	482
45°	617	641	711	772	792	477
55°	460	496	571	627	645	409
65°	298	337	399	440	448	297
75°	151	185	222	244	246	163
85°	38	53	55	56	54	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1045	1045	1045	1045	1045
2.5°	1046	1044	1040	1045	1045
5°	1041	1039	1036	1041	1041
7.5°	1034	1032	1028	1034	1034
10°	1023	1022	1018	1024	1023
12.5°	1009	1009	1006	1011	1011
15°	993	993	991	996	996
17.5°	975	975	973	980	980
20°	953	951	953	963	965
22.5°	927	928	932	945	949
25°	900	904	909	928	935
27.5°	872	876	886	913	923
30°	841	846	864	897	909
32.5°	807	815	840	881	895
35°	770	780	817	862	878
37.5°	733	747	793	844	861
40°	697	712	768	823	841
42.5°	657	677	739	798	819
45°	617	641	711	772	792
47.5°	579	605	679	742	761
50°	537	571	646	706	725
52.5°	496	533	610	671	687
55°	460	496	571	627	645
57.5°	416	459	530	583	595
60°	378	415	488	537	550
62.5°	339	379	445	487	500
65°	298	337	399	440	448
67.5°	262	300	357	388	398
70°	225	258	310	341	346
72.5°	189	222	267	291	298
75°	151	185	222	244	246
77.5°	120	149	181	193	194
80°	89	115	139	138	132
82.5°	61	81	94	92	88
85°	38	53	55	56	54
87.5°	17	21	23	23	22
90°	0	0	0	0	0

(END OF REPORT)