

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: P35866

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P35866  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WG-1L30-LD5-UNV-24  
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2818.7 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.44 / 1.48  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

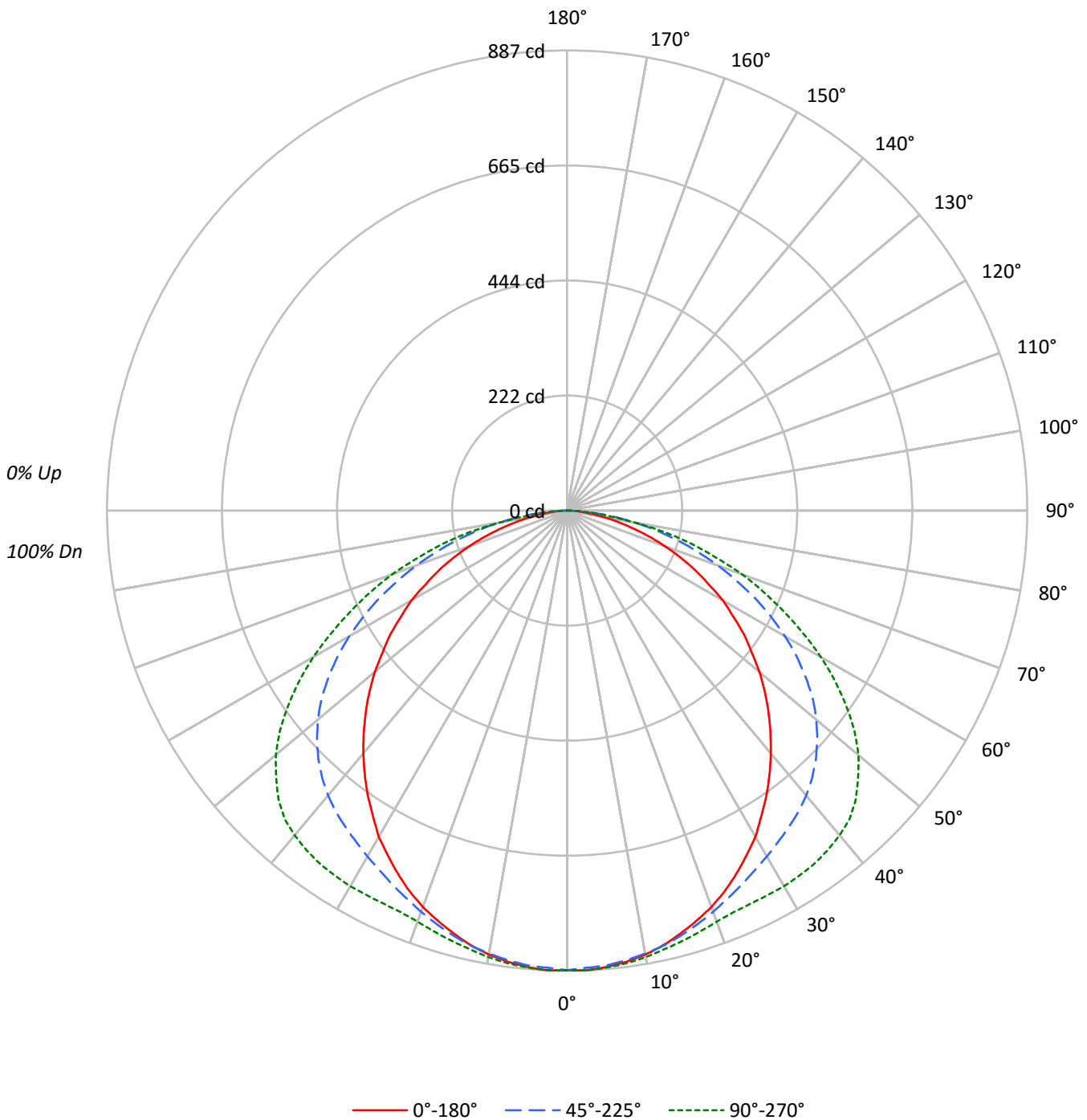
Input Watts (W): 23  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	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	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1192	1192	1192
5°	1193	1189	1194
10°	1187	1185	1194
15°	1176	1181	1197
20°	1164	1178	1207
25°	1146	1182	1241
30°	1128	1196	1299
35°	1101	1224	1365
40°	1073	1259	1435
45°	1045	1290	1498
50°	1013	1312	1534
55°	976	1318	1541
60°	934	1305	1520
65°	869	1270	1468
70°	787	1216	1408
75°	671	1133	1294
80°	542	1023	1000
85°	371	726	710



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.8	3.0
10°-20°	240.2	8.5
20°-30°	369.9	13.1
30°-40°	468.2	16.6
40°-50°	517.6	18.4
50°-60°	490.3	17.4
60°-70°	379.8	13.5
70°-80°	216.4	7.7
80°-90°	52.4	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°	693.8	24.6
0°-40°	1162.1	41.2
0°-60°	2170.0	77.0
0°-90°	2818.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2818.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	886	886	886	886	886	
5°	883	882	880	883	884	84
15°	844	846	848	856	859	238
25°	772	778	796	825	836	356
35°	670	687	745	808	831	419
45°	549	584	678	758	787	423
55°	416	466	562	634	657	371
65°	273	321	399	450	461	269
75°	129	170	218	242	249	139
85°	24	44	47	46	46	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	886	886	886	886	886
2.5°	887	885	882	886	887
5°	883	882	880	883	884
7.5°	877	876	874	879	880
10°	869	869	867	872	874
12.5°	858	859	859	864	866
15°	844	846	848	856	859
17.5°	829	832	836	846	851
20°	813	815	823	838	843
22.5°	794	797	809	830	838
25°	772	778	796	825	836
27.5°	749	756	782	820	836
30°	726	734	770	817	836
32.5°	697	711	757	814	834
35°	670	687	745	808	831
37.5°	641	662	732	800	825
40°	611	637	717	790	817
42.5°	580	611	699	777	806
45°	549	584	678	758	787
47.5°	517	556	654	735	761
50°	484	527	627	707	733
52.5°	448	498	597	673	698
55°	416	466	562	634	657
57.5°	379	435	525	594	613
60°	347	396	485	548	565
62.5°	307	363	443	500	513
65°	273	321	399	450	461
67.5°	236	283	353	398	410
70°	200	243	309	345	358
72.5°	165	206	263	294	300
75°	129	170	218	242	249
77.5°	99	133	175	194	193
80°	70	100	132	135	129
82.5°	45	71	89	82	82
85°	24	44	47	46	46
87.5°	9	16	16	16	16
90°	0	0	0	0	0

(END OF REPORT)