

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: P35867

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35867
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-1L30-LD5-UNV-24
Description: CLASS Z3 2X4 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: 2806.4 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

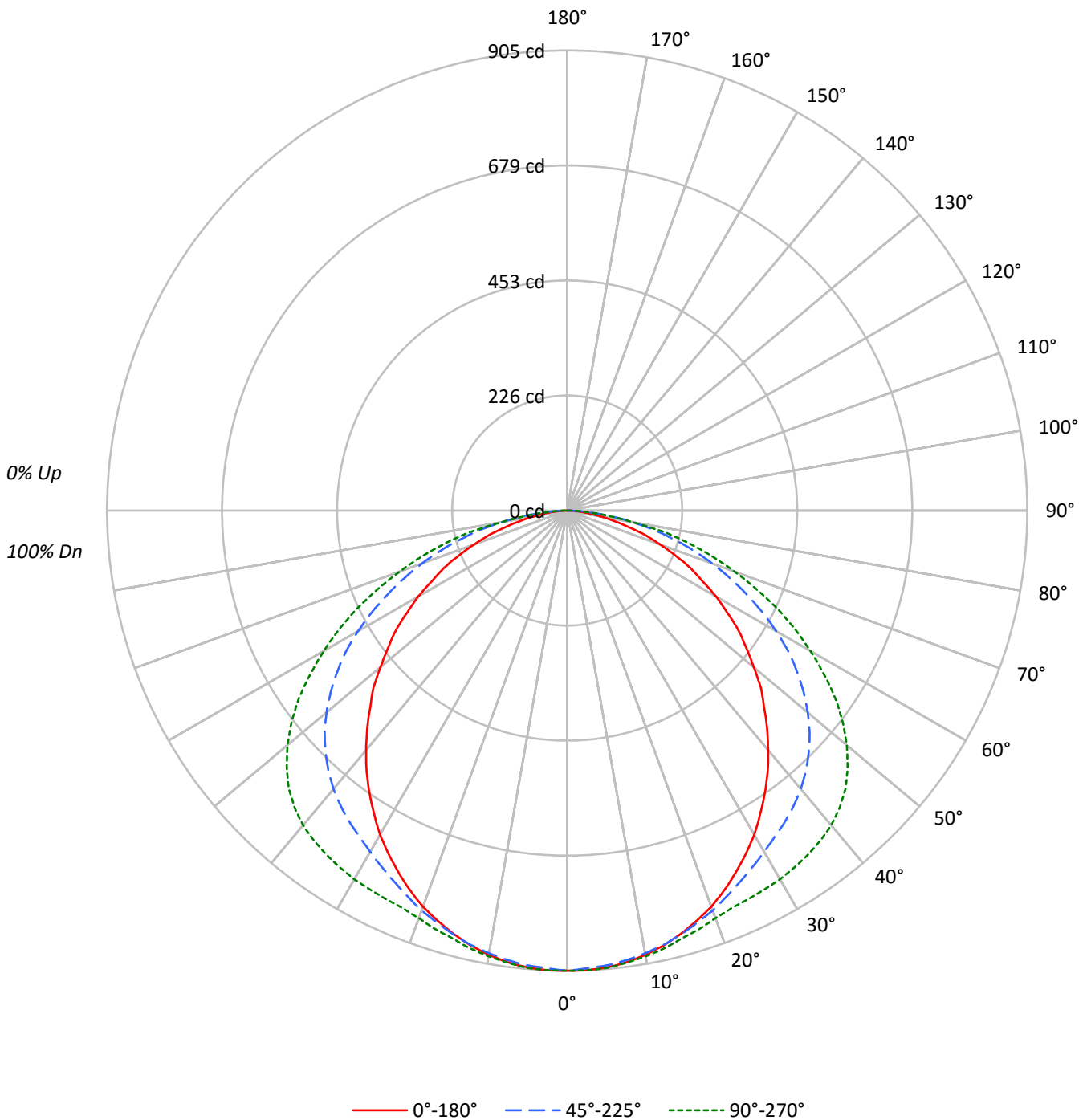
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1218	1218	1218
5°	1218	1213	1220
10°	1212	1208	1216
15°	1201	1202	1213
20°	1187	1198	1221
25°	1165	1195	1252
30°	1143	1204	1300
35°	1114	1227	1357
40°	1080	1256	1419
45°	1043	1279	1473
50°	1003	1294	1503
55°	966	1295	1511
60°	910	1278	1488
65°	853	1238	1452
70°	763	1192	1377
75°	650	1123	1284
80°	519	1007	1007
85°	371	726	695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	3.0
10°-20°	244.4	8.7
20°-30°	374.2	13.3
30°-40°	469.2	16.7
40°-50°	513.0	18.3
50°-60°	481.7	17.2
60°-70°	372.0	13.3
70°-80°	213.9	7.6
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°	704.2	25.1
0°-40°	1173.4	41.8
0°-60°	2168.1	77.3
0°-90°	2806.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2806.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	902	900	898	901	903	86
15°	862	863	863	870	871	243
25°	785	790	805	831	843	362
35°	678	693	747	806	826	424
45°	548	582	672	748	774	423
55°	412	459	552	623	644	366
65°	268	314	389	440	456	263
75°	125	167	216	242	247	135
85°	24	44	47	45	45	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905	905	905	905	905
2.5°	905	904	901	904	905
5°	902	900	898	901	903
7.5°	896	895	892	897	897
10°	887	886	884	889	890
12.5°	876	875	875	881	882
15°	862	863	863	870	871
17.5°	846	846	850	859	863
20°	829	830	837	848	853
22.5°	808	812	821	839	846
25°	785	790	805	831	843
27.5°	761	768	790	825	840
30°	736	745	775	820	837
32.5°	707	719	760	813	832
35°	678	693	747	806	826
37.5°	648	665	732	795	818
40°	615	639	715	783	808
42.5°	582	611	695	768	793
45°	548	582	672	748	774
47.5°	517	553	647	723	748
50°	479	524	618	694	718
52.5°	444	493	586	661	683
55°	412	459	552	623	644
57.5°	373	424	516	582	599
60°	338	388	475	536	553
62.5°	299	355	433	490	505
65°	268	314	389	440	456
67.5°	230	276	346	391	402
70°	194	238	303	341	350
72.5°	162	201	260	291	299
75°	125	167	216	242	247
77.5°	95	132	174	191	195
80°	67	101	130	137	130
82.5°	43	71	89	85	82
85°	24	44	47	45	45
87.5°	10	16	16	15	16
90°	0	0	0	0	0

(END OF REPORT)