

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: P35868

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35868
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-1L30-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2905.4 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

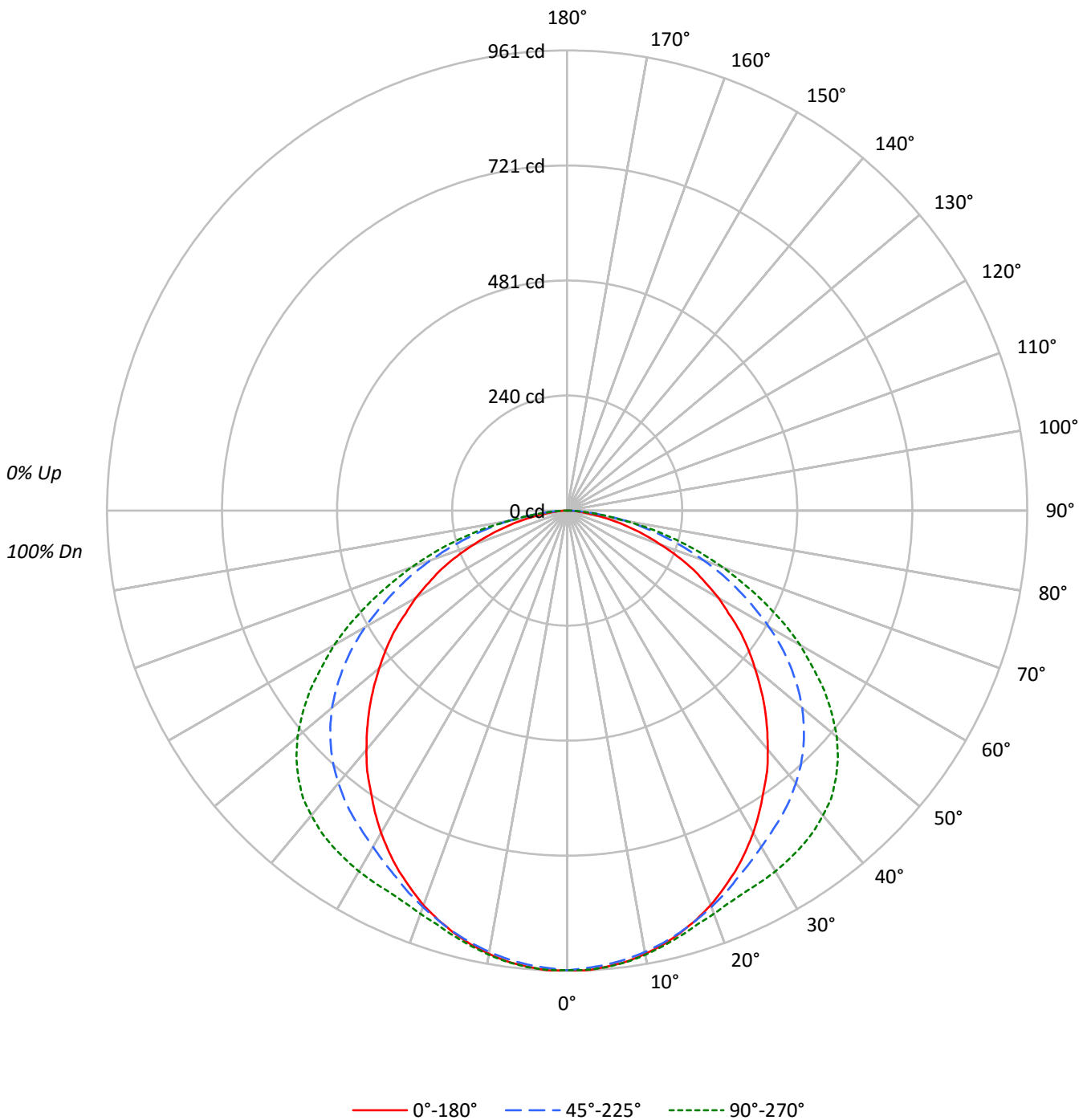
Input Watts (W): 23
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	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	89	79	70	64	87	77	69	63	74	67	62		71	66	61		69	64	60	58
4	82	69	60	54	79	68	60	53	66	58	52		63	57	52		61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39		51	44	39		49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35		46	39	34		45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31		42	36	31		41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28		39	32	28		38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25		36	30	25		35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1292	1292	1292
5°	1291	1286	1293
10°	1284	1279	1287
15°	1272	1270	1280
20°	1256	1261	1283
25°	1234	1254	1305
30°	1207	1260	1352
35°	1174	1281	1404
40°	1145	1305	1460
45°	1111	1328	1509
50°	1072	1342	1539
55°	1034	1337	1539
60°	982	1311	1512
65°	923	1261	1449
70°	818	1188	1357
75°	691	1087	1222
80°	535	969	938
85°	371	664	633



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.7	3.1
10°-20°	258.1	8.9
20°-30°	393.0	13.5
30°-40°	490.1	16.9
40°-50°	533.6	18.4
50°-60°	499.0	17.2
60°-70°	380.5	13.1
70°-80°	211.0	7.3
80°-90°	49.5	1.7
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°	741.8	25.5
0°-40°	1231.9	42.4
0°-60°	2264.4	77.9
0°-90°	2905.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2905.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	956	956	952	956	957	91
15°	913	913	912	918	919	257
25°	831	834	845	869	879	382
35°	715	731	780	835	855	448
45°	584	615	698	769	793	450
55°	441	484	570	636	656	393
65°	290	328	396	443	455	285
75°	133	169	209	233	235	143
85°	24	41	43	43	41	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960	960	960	960	960
2.5°	961	959	956	959	960
5°	956	956	952	956	957
7.5°	950	949	945	950	951
10°	940	939	936	940	942
12.5°	928	927	925	931	931
15°	913	913	912	918	919
17.5°	896	896	897	904	906
20°	877	877	881	892	896
22.5°	854	856	864	879	886
25°	831	834	845	869	879
27.5°	805	810	828	861	875
30°	777	784	811	854	870
32.5°	747	757	795	845	863
35°	715	731	780	835	855
37.5°	686	702	763	823	845
40°	652	672	743	809	831
42.5°	618	645	722	791	816
45°	584	615	698	769	793
47.5°	548	583	671	743	767
50°	512	553	641	713	735
52.5°	477	520	607	677	697
55°	441	484	570	636	656
57.5°	400	451	531	591	607
60°	365	409	487	543	562
62.5°	325	371	441	496	510
65°	290	328	396	443	455
67.5°	249	288	351	390	399
70°	208	247	302	339	345
72.5°	171	208	256	286	291
75°	133	169	209	233	235
77.5°	101	133	165	182	183
80°	69	97	125	127	121
82.5°	44	67	81	78	78
85°	24	41	43	43	41
87.5°	10	16	16	15	15
90°	0	0	0	0	0

(END OF REPORT)