

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: P35874

Luminaire Tested: **Z3-WG-1L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35874
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-14
Description: CLASS Z3 1X4 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: 1785.1 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

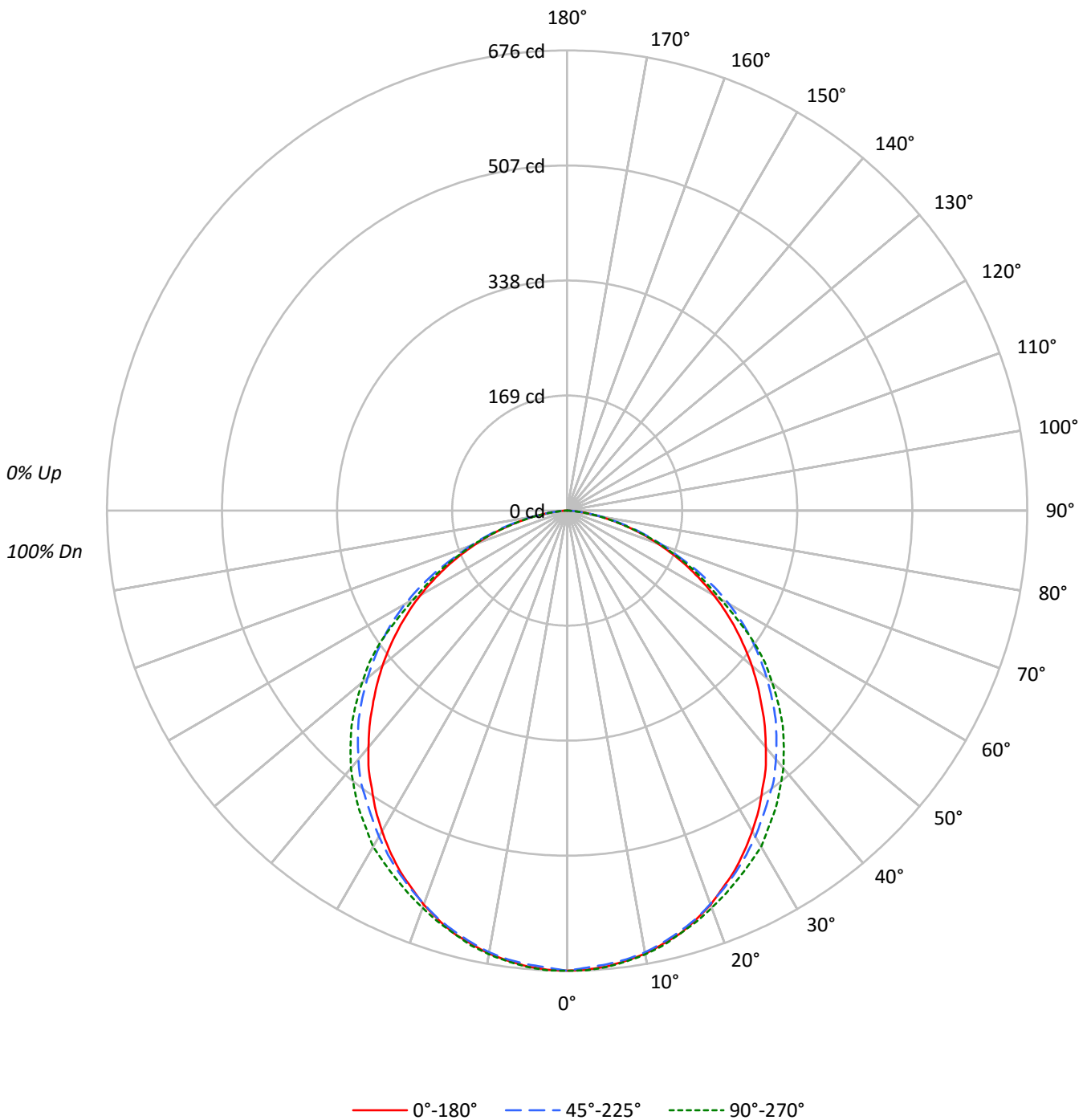
Input Watts (W): 15.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P35874

CATALOG NUMBER: Z3-WG-1L30-LD5-UNV-14

Luminous Intensity Polar Plot





TEST NUMBER: P35874

CATALOG NUMBER: Z3-WG-1L30-LD5-UNV-14

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	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63	58	54	52
5	77	64	55	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	42		53	47	42		52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1819	1819	1819
5°	1815	1807	1818
10°	1806	1801	1809
15°	1791	1783	1791
20°	1764	1761	1778
25°	1731	1740	1770
30°	1690	1718	1771
35°	1643	1695	1754
40°	1595	1676	1735
45°	1537	1648	1705
50°	1482	1603	1645
55°	1417	1553	1562
60°	1340	1480	1399
65°	1242	1350	1293
70°	1117	1180	1149
75°	946	1009	957
80°	744	775	713
85°	494	463	371



TEST NUMBER: P35874

CATALOG NUMBER: Z3-WG-1L30-LD5-UNV-14

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	3.6
10°-20°	181.1	10.1
20°-30°	271.1	15.2
30°-40°	323.5	18.1
40°-50°	330.5	18.5
50°-60°	289.5	16.2
60°-70°	203.5	11.4
70°-80°	102.2	5.7
80°-90°	20.0	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°	516.0	28.9
0°-40°	839.5	47.0
0°-60°	1459.4	81.8
0°-90°	1785.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1785.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	672	672	669	673	673	64
15°	643	642	640	644	643	181
25°	583	584	586	594	596	268
35°	500	504	516	530	534	313
45°	404	412	433	445	448	312
55°	302	317	331	336	333	270
65°	195	207	212	204	203	193
75°	91	100	97	94	92	98
85°	16	17	15	13	12	20
90°	0	0	0	0	0	



TEST NUMBER: P35874

CATALOG NUMBER: Z3-WG-1L30-LD5-UNV-14

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	676	676	676	676	676
2.5°	675	675	672	676	676
5°	672	672	669	673	673
7.5°	667	667	665	668	668
10°	661	661	659	662	662
12.5°	652	652	650	653	654
15°	643	642	640	644	643
17.5°	630	630	629	633	633
20°	616	617	615	620	621
22.5°	599	600	601	607	609
25°	583	584	586	594	596
27.5°	564	566	570	579	583
30°	544	547	553	565	570
32.5°	523	527	534	549	551
35°	500	504	516	530	534
37.5°	479	483	499	511	514
40°	454	460	477	490	494
42.5°	430	436	455	468	471
45°	404	412	433	445	448
47.5°	379	388	408	419	421
50°	354	364	383	394	393
52.5°	328	339	357	366	366
55°	302	317	331	336	333
57.5°	276	289	304	304	295
60°	249	262	275	267	260
62.5°	222	235	244	232	230
65°	195	207	212	204	203
67.5°	168	180	178	177	173
70°	142	153	150	148	146
72.5°	117	127	123	120	119
75°	91	100	97	94	92
77.5°	68	74	73	70	68
80°	48	52	50	48	46
82.5°	29	33	31	28	27
85°	16	17	15	13	12
87.5°	6	5	4	4	3
90°	0	0	0	0	0

(END OF REPORT)