

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: P35876

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35876
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-14
Description: CLASS Z3 1X4 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: 1883.7 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

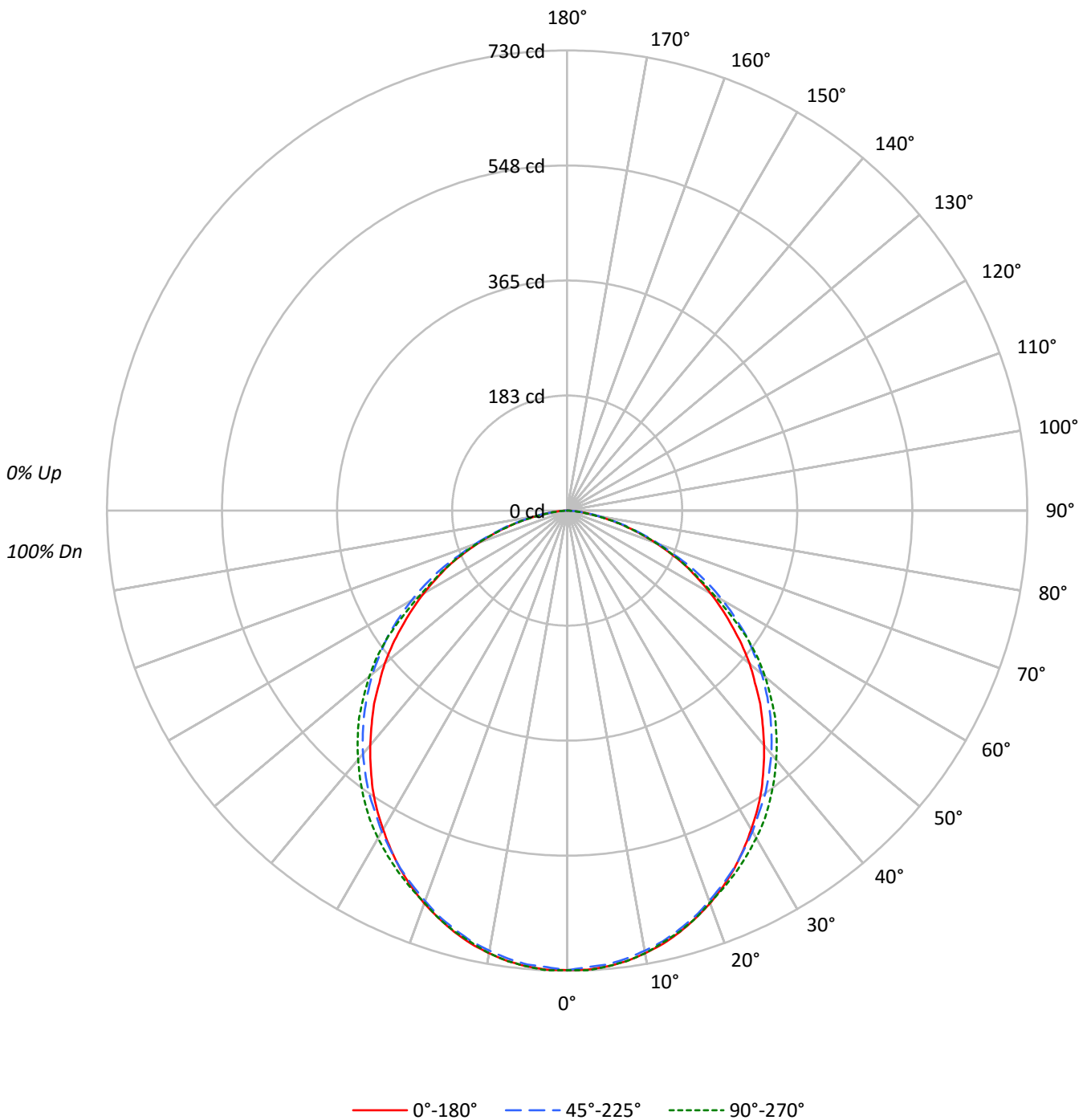
Input Watts (W): 15.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	64	56	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		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1962	1962	1962
5°	1961	1953	1961
10°	1948	1937	1948
15°	1928	1917	1925
20°	1899	1887	1896
25°	1862	1859	1879
30°	1815	1827	1864
35°	1767	1800	1843
40°	1707	1770	1813
45°	1648	1732	1777
50°	1582	1687	1716
55°	1497	1628	1619
60°	1415	1534	1453
65°	1324	1407	1331
70°	1172	1212	1180
75°	988	1040	988
80°	759	790	713
85°	463	463	401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.7
10°-20°	194.7	10.3
20°-30°	289.6	15.4
30°-40°	343.0	18.2
40°-50°	348.2	18.5
50°-60°	303.0	16.1
60°-70°	211.7	11.2
70°-80°	104.6	5.6
80°-90°	20.2	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°	553.1	29.4
0°-40°	896.1	47.6
0°-60°	1547.2	82.1
0°-90°	1883.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1883.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	729	729	729	729	729	
5°	726	726	723	727	726	69
15°	692	692	688	692	691	195
25°	627	627	626	631	633	289
35°	538	539	548	559	561	336
45°	433	438	455	464	467	333
55°	319	333	347	348	345	286
65°	208	217	221	211	209	204
75°	95	102	100	95	95	101
85°	15	17	15	14	13	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	729	729	729	729	729
2.5°	729	729	725	729	730
5°	726	726	723	727	726
7.5°	721	720	717	720	721
10°	713	712	709	713	713
12.5°	704	703	700	703	702
15°	692	692	688	692	691
17.5°	678	678	675	677	678
20°	663	663	659	664	662
22.5°	646	646	643	648	648
25°	627	627	626	631	633
27.5°	606	607	607	615	617
30°	584	585	588	598	600
32.5°	562	563	567	579	582
35°	538	539	548	559	561
37.5°	512	515	526	537	539
40°	486	489	504	513	516
42.5°	459	465	480	489	492
45°	433	438	455	464	467
47.5°	404	411	429	438	438
50°	378	386	403	410	410
52.5°	349	360	374	382	380
55°	319	333	347	348	345
57.5°	291	304	316	315	306
60°	263	274	285	277	270
62.5°	234	246	254	241	238
65°	208	217	221	211	209
67.5°	177	188	185	182	180
70°	149	158	154	151	150
72.5°	121	130	126	124	121
75°	95	102	100	95	95
77.5°	70	76	73	71	70
80°	49	52	51	48	46
82.5°	29	33	31	29	28
85°	15	17	15	14	13
87.5°	5	5	4	3	3
90°	0	0	0	0	0

(END OF REPORT)