

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: P35858

Luminaire Tested: **Z3-WG-1L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P35858
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-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1832.0 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.34 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

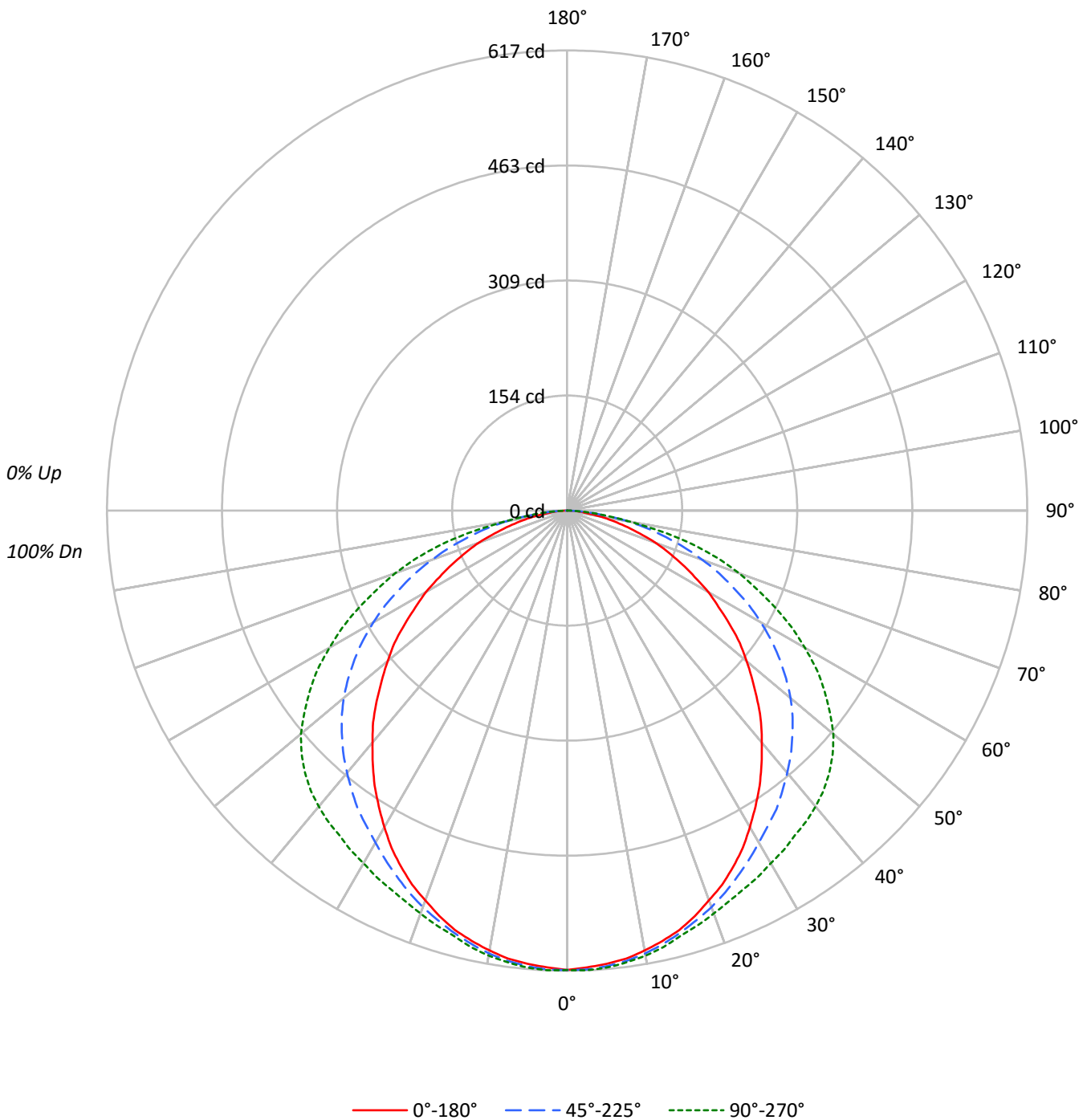
Input Watts (W): 16.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	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	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	55	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	40	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
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°	1658	1658	1658
5°	1648	1656	1661
10°	1637	1648	1656
15°	1621	1633	1644
20°	1592	1621	1647
25°	1565	1606	1663
30°	1523	1597	1697
35°	1478	1606	1748
40°	1426	1612	1820
45°	1374	1625	1891
50°	1315	1637	1951
55°	1248	1633	1975
60°	1179	1615	1981
65°	1082	1573	1961
70°	991	1519	1928
75°	832	1424	1799
80°	682	1271	1302
85°	494	865	865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	3.2
10°-20°	165.4	9.0
20°-30°	250.2	13.7
30°-40°	306.6	16.7
40°-50°	330.0	18.0
50°-60°	309.3	16.9
60°-70°	241.0	13.2
70°-80°	139.3	7.6
80°-90°	32.0	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°	473.8	25.9
0°-40°	780.4	42.6
0°-60°	1419.6	77.5
0°-90°	1832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	616	616	616	616	616	
5°	610	611	613	614	615	58
15°	582	582	586	590	590	164
25°	527	530	541	554	560	242
35°	450	459	489	520	532	281
45°	361	378	427	477	497	278
55°	266	295	348	402	421	238
65°	170	199	247	292	308	169
75°	80	104	137	163	173	86
85°	16	24	28	29	28	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	616	616	616	616	616
2.5°	613	614	616	617	617
5°	610	611	613	614	615
7.5°	606	607	609	611	611
10°	599	600	603	605	606
12.5°	591	592	595	597	599
15°	582	582	586	590	590
17.5°	570	572	576	581	583
20°	556	559	566	572	575
22.5°	543	546	554	563	567
25°	527	530	541	554	560
27.5°	510	515	528	547	554
30°	490	496	514	538	546
32.5°	470	478	501	530	540
35°	450	459	489	520	532
37.5°	428	439	474	511	526
40°	406	418	459	501	518
42.5°	385	400	444	489	509
45°	361	378	427	477	497
47.5°	337	358	410	462	483
50°	314	336	391	445	466
52.5°	292	315	370	424	444
55°	266	295	348	402	421
57.5°	241	270	325	376	397
60°	219	244	300	349	368
62.5°	193	220	275	321	340
65°	170	199	247	292	308
67.5°	147	172	221	260	275
70°	126	149	193	229	245
72.5°	102	126	165	196	211
75°	80	104	137	163	173
77.5°	61	82	110	128	130
80°	44	60	82	87	84
82.5°	28	41	52	53	53
85°	16	24	28	29	28
87.5°	7	9	9	9	9
90°	0	0	0	0	0

(END OF REPORT)