

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: P220159

Luminaire Tested: **Z3-WD-2L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35859)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-2L30-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2259.9 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.4 / 1.45
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

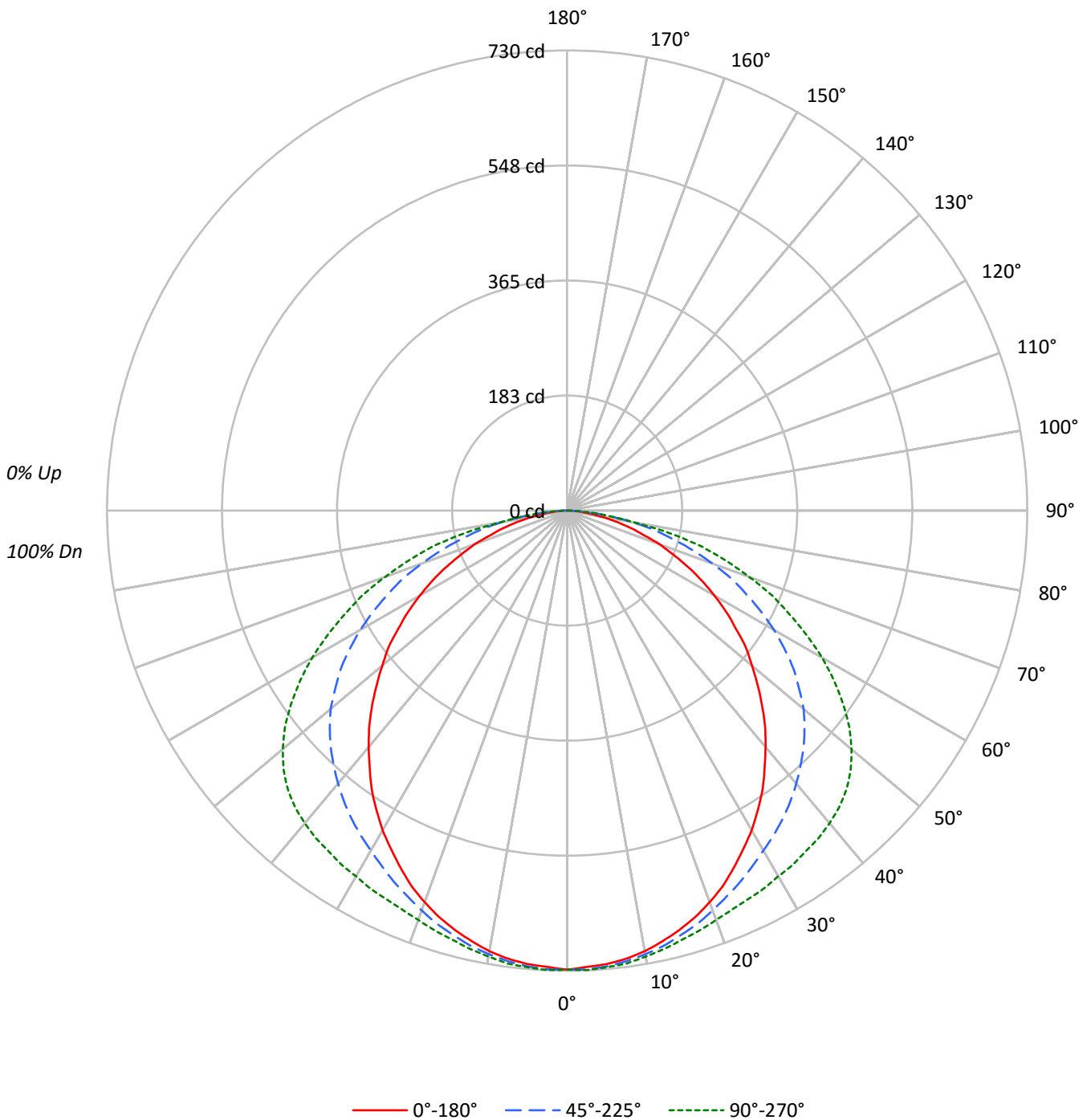
Input Watts (W): 20.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	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	27	54	41	33	27	40	32	27	39	32	27	38	31	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°	1960	1960	1960
5°	1951	1961	1964
10°	1939	1953	1963
15°	1918	1942	1963
20°	1893	1933	1979
25°	1856	1930	2018
30°	1819	1935	2082
35°	1776	1960	2168
40°	1720	1987	2275
45°	1665	2020	2384
50°	1603	2050	2466
55°	1534	2058	2507
60°	1452	2040	2515
65°	1345	1994	2477
70°	1223	1926	2415
75°	1059	1797	2300
80°	828	1618	1675
85°	614	1112	1189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.0
10°-20°	196.9	8.7
20°-30°	300.7	13.3
30°-40°	374.5	16.6
40°-50°	409.4	18.1
50°-60°	388.3	17.2
60°-70°	304.2	13.5
70°-80°	175.9	7.8
80°-90°	41.2	1.8
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°	566.4	25.1
0°-40°	940.9	41.6
0°-60°	1738.6	76.9
0°-90°	2259.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2259.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	722	723	726	727	727	69
15°	688	691	697	704	705	194
25°	625	631	650	671	680	288
35°	541	553	597	643	660	337
45°	438	464	531	599	626	337
55°	327	367	439	508	534	293
65°	211	249	313	369	389	209
75°	102	129	173	206	221	108
85°	20	29	36	38	38	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.3	728.3	728.3	728.3	728.3
2.5°	724.6	725.8	728.3	729.6	729.6
5°	722.1	723.3	725.8	727.1	727.1
7.5°	717.1	718.4	720.9	723.3	724.6
10°	709.7	710.9	714.6	718.4	718.4
12.5°	699.7	702.2	707.2	710.9	712.2
15°	688.5	691.0	697.2	703.5	704.7
17.5°	676.1	679.8	687.3	694.8	698.5
20°	661.2	663.7	674.9	686.1	691.0
22.5°	645.0	648.8	662.4	678.6	684.8
25°	625.2	631.4	650.0	671.1	679.8
27.5°	605.3	614.0	636.3	664.9	676.1
30°	585.4	594.1	622.7	657.5	669.9
32.5°	563.0	574.2	610.2	650.0	666.2
35°	540.6	553.1	596.6	642.6	660.0
37.5°	514.5	530.7	581.7	633.9	655.0
40°	489.7	507.1	565.5	623.9	647.5
42.5°	464.8	484.7	548.1	612.7	638.8
45°	437.5	463.6	530.7	599.1	626.4
47.5°	410.1	440.0	510.8	582.9	610.2
50°	382.8	413.9	489.7	563.0	589.1
52.5°	357.9	389.0	463.6	536.9	564.3
55°	326.9	366.6	438.7	508.3	534.4
57.5°	299.5	335.6	408.9	477.3	502.1
60°	269.7	305.7	379.1	443.7	467.3
62.5°	241.1	275.9	346.8	407.7	428.8
65°	211.3	248.6	313.2	369.1	389.0
67.5°	181.5	216.3	282.1	330.6	351.7
70°	155.4	187.7	244.8	289.6	307.0
72.5°	125.5	156.6	208.8	248.6	263.5
75°	101.9	129.3	172.8	206.3	221.2
77.5°	77.1	103.2	139.2	161.6	167.8
80°	53.4	75.8	104.4	113.1	108.1
82.5°	34.8	52.2	67.1	69.6	68.4
85°	19.9	28.6	36.0	38.5	38.5
87.5°	8.7	11.2	12.4	12.4	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)