

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: P220178

Luminaire Tested: **Z3-WN-4L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35860)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-4L30-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3327.6 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

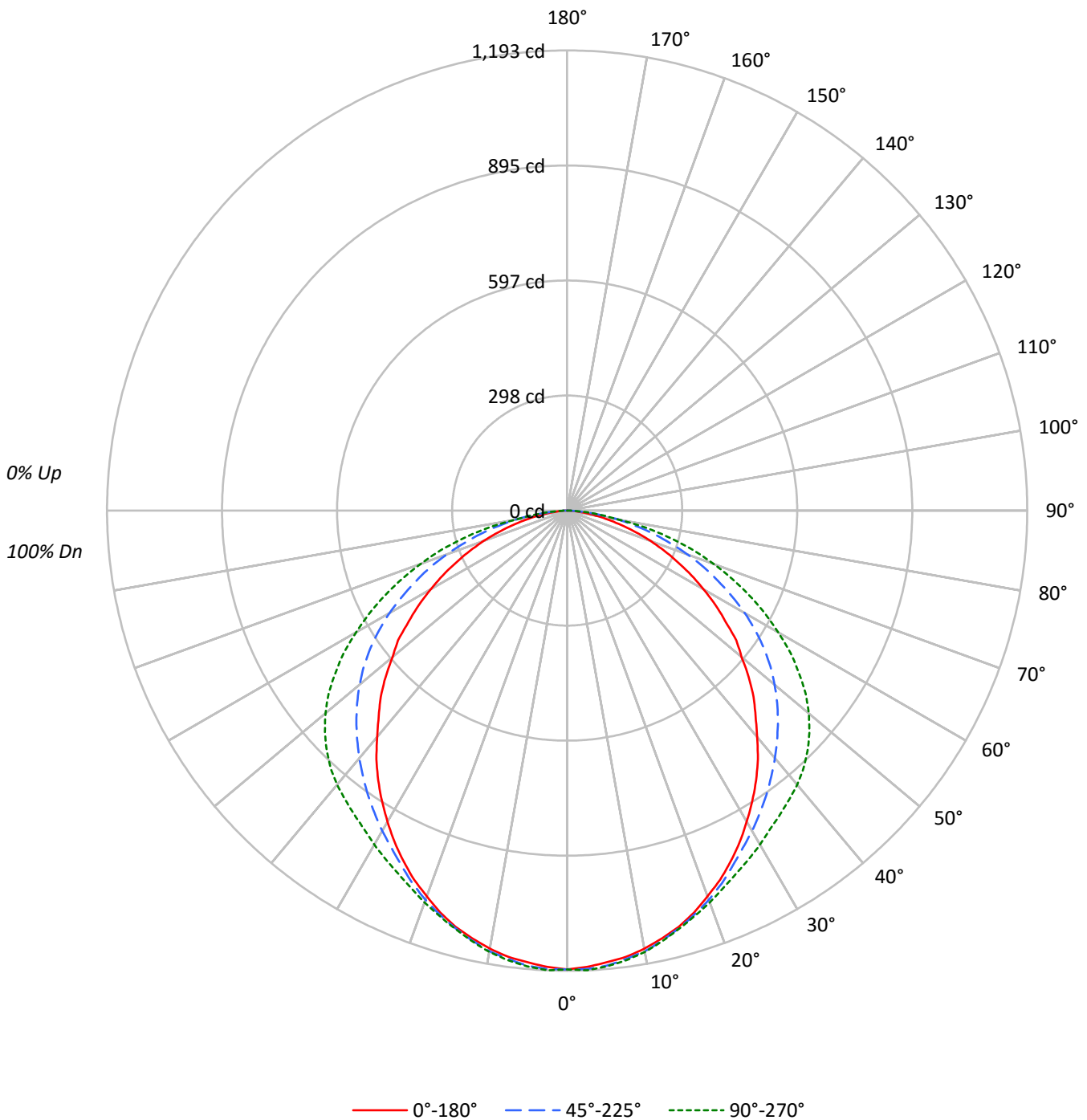
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3201	3201	3201
5°	3176	3199	3204
10°	3151	3170	3175
15°	3112	3122	3127
20°	3046	3076	3096
25°	2980	3015	3082
30°	2893	2979	3108
35°	2805	2957	3161
40°	2691	2945	3259
45°	2601	2941	3354
50°	2472	2940	3423
55°	2350	2923	3440
60°	2196	2863	3400
65°	2017	2751	3321
70°	1815	2614	3183
75°	1521	2399	2917
80°	1173	2108	2134
85°	849	1436	1541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.4
10°-20°	315.9	9.5
20°-30°	469.9	14.1
30°-40°	565.9	17.0
40°-50°	599.3	18.0
50°-60°	554.1	16.7
60°-70°	422.0	12.7
70°-80°	234.9	7.1
80°-90°	53.5	1.6
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°	897.9	27.0
0°-40°	1463.8	44.0
0°-60°	2617.2	78.7
0°-90°	3327.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3327.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1189	1189	1189	1189	1189	
5°	1176	1179	1184	1186	1186	112
15°	1117	1119	1121	1122	1122	314
25°	1004	1005	1016	1029	1038	462
35°	854	862	900	945	962	533
45°	683	704	773	850	881	525
55°	501	542	623	704	733	449
65°	317	358	432	498	522	314
75°	146	179	231	268	281	156
85°	28	38	46	50	50	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1189.4	1189.4	1189.4	1189.4	1189.4
2.5°	1184.3	1186.0	1189.4	1192.9	1192.9
5°	1175.7	1179.1	1184.3	1186.0	1186.0
7.5°	1167.0	1168.8	1172.2	1175.7	1175.7
10°	1153.3	1155.0	1160.2	1161.9	1161.9
12.5°	1136.1	1137.8	1141.2	1143.0	1143.0
15°	1117.1	1118.9	1120.6	1122.3	1122.3
17.5°	1093.0	1094.8	1098.2	1101.6	1101.6
20°	1063.8	1068.9	1074.1	1077.5	1081.0
22.5°	1036.2	1038.0	1046.6	1055.2	1058.6
25°	1003.5	1005.2	1015.6	1029.3	1038.0
27.5°	969.1	974.3	986.3	1010.4	1019.0
30°	931.2	938.1	958.8	988.0	1000.1
32.5°	893.4	900.2	929.5	965.7	979.4
35°	853.8	862.4	900.2	945.0	962.2
37.5°	812.5	822.8	869.3	922.6	945.0
40°	766.0	783.2	838.3	900.2	927.8
42.5°	723.0	743.6	805.6	876.1	907.1
45°	683.4	704.0	772.9	850.3	881.3
47.5°	638.6	664.4	738.4	821.1	852.0
50°	590.4	623.1	702.3	786.6	817.6
52.5°	552.5	581.8	664.4	748.8	779.8
55°	500.9	542.2	623.1	704.0	733.3
57.5°	456.1	494.0	578.4	657.5	686.8
60°	408.0	447.5	531.9	605.9	631.7
62.5°	363.2	401.1	482.0	554.3	578.4
65°	316.7	358.0	432.0	497.5	521.6
67.5°	272.0	311.6	383.9	444.1	463.0
70°	230.7	265.1	332.2	382.1	404.5
72.5°	185.9	220.3	278.9	325.3	344.3
75°	146.3	179.0	230.7	268.5	280.6
77.5°	108.4	139.4	180.7	210.0	215.2
80°	75.7	101.6	136.0	141.1	137.7
82.5°	48.2	67.1	86.1	87.8	87.8
85°	27.5	37.9	46.5	49.9	49.9
87.5°	10.3	13.8	17.2	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)