

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: P220162

Luminaire Tested: **Z3-WD-5L30-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220162
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-5L30-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: 3515.1 lumens
Efficiency: N/A
Efficacy: 98.7 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

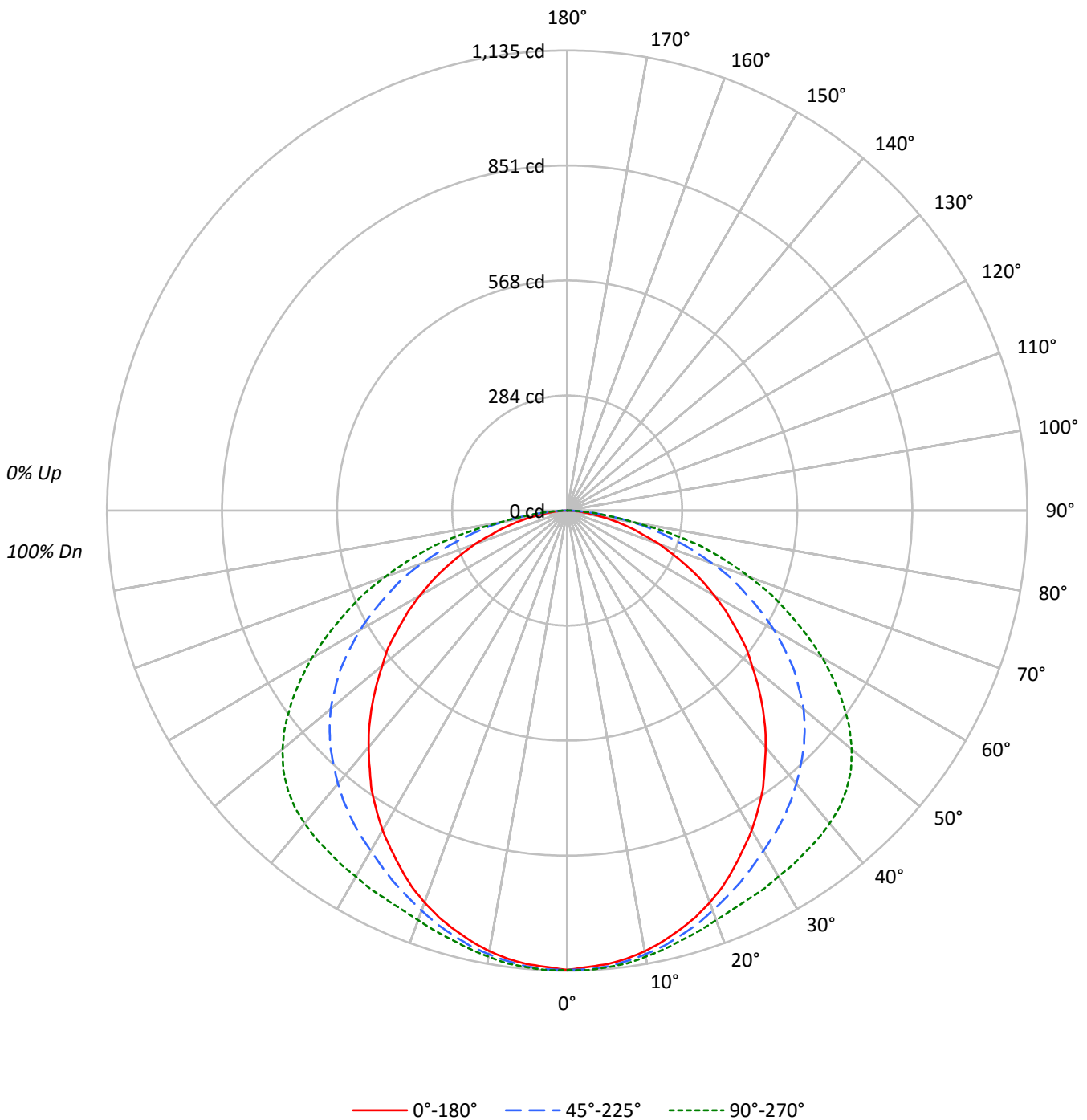
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3048	3048	3048
5°	3034	3050	3055
10°	3016	3037	3053
15°	2984	3021	3054
20°	2945	3006	3078
25°	2887	3002	3140
30°	2829	3009	3238
35°	2762	3048	3372
40°	2676	3090	3538
45°	2590	3142	3708
50°	2493	3189	3836
55°	2385	3202	3900
60°	2258	3173	3912
65°	2092	3102	3853
70°	1901	2996	3757
75°	1648	2794	3578
80°	1288	2517	2607
85°	954	1732	1849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	3.0
10°-20°	306.2	8.7
20°-30°	467.7	13.3
30°-40°	582.5	16.6
40°-50°	636.8	18.1
50°-60°	604.0	17.2
60°-70°	473.1	13.5
70°-80°	273.6	7.8
80°-90°	64.1	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°	881.0	25.1
0°-40°	1463.5	41.6
0°-60°	2704.3	76.9
0°-90°	3515.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3515.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1123	1125	1129	1131	1131	107
15°	1071	1075	1084	1094	1096	302
25°	972	982	1011	1044	1058	448
35°	841	860	928	1000	1026	525
45°	680	721	826	932	974	525
55°	508	570	682	791	831	456
65°	329	387	487	574	605	326
75°	158	201	269	321	344	168
85°	31	44	56	60	60	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1132.8	1132.8	1132.8	1132.8	1132.8
2.5°	1127.0	1129.0	1132.8	1134.8	1134.8
5°	1123.2	1125.1	1129.0	1130.9	1130.9
7.5°	1115.4	1117.4	1121.2	1125.1	1127.0
10°	1103.8	1105.8	1111.6	1117.4	1117.4
12.5°	1088.4	1092.2	1100.0	1105.8	1107.7
15°	1071.0	1074.8	1084.5	1094.2	1096.1
17.5°	1051.7	1057.5	1069.1	1080.6	1086.4
20°	1028.5	1032.3	1049.7	1067.1	1074.8
22.5°	1003.3	1009.1	1030.4	1055.5	1065.2
25°	972.4	982.1	1011.1	1043.9	1057.5
27.5°	941.5	955.0	989.8	1034.3	1051.7
30°	910.5	924.1	968.5	1022.7	1042.0
32.5°	875.7	893.1	949.2	1011.1	1036.2
35°	840.9	860.3	927.9	999.5	1026.5
37.5°	800.3	825.5	904.7	985.9	1018.8
40°	761.7	788.7	879.6	970.5	1007.2
42.5°	723.0	753.9	852.5	953.1	993.7
45°	680.5	721.1	825.5	931.8	974.3
47.5°	638.0	684.3	794.5	906.7	949.2
50°	595.4	643.7	761.7	875.7	916.3
52.5°	556.8	605.1	721.1	835.1	877.7
55°	508.4	570.3	682.4	790.7	831.3
57.5°	465.9	522.0	636.0	742.3	781.0
60°	419.5	475.6	589.6	690.1	726.9
62.5°	375.0	429.2	539.4	634.1	666.9
65°	328.6	386.6	487.2	574.2	605.1
67.5°	282.2	336.4	438.8	514.2	547.1
70°	241.6	291.9	380.8	450.4	477.5
72.5°	195.3	243.6	324.8	386.6	409.8
75°	158.5	201.1	268.7	320.9	344.1
77.5°	119.9	160.5	216.5	251.3	261.0
80°	83.1	117.9	162.4	175.9	168.2
82.5°	54.1	81.2	104.4	108.3	106.3
85°	30.9	44.5	56.1	59.9	59.9
87.5°	13.5	17.4	19.3	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)