

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: P220145

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220145  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35858)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WG-5L30-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: 3541.5 lumens  
Efficiency: N/A  
Efficacy: 99.5 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

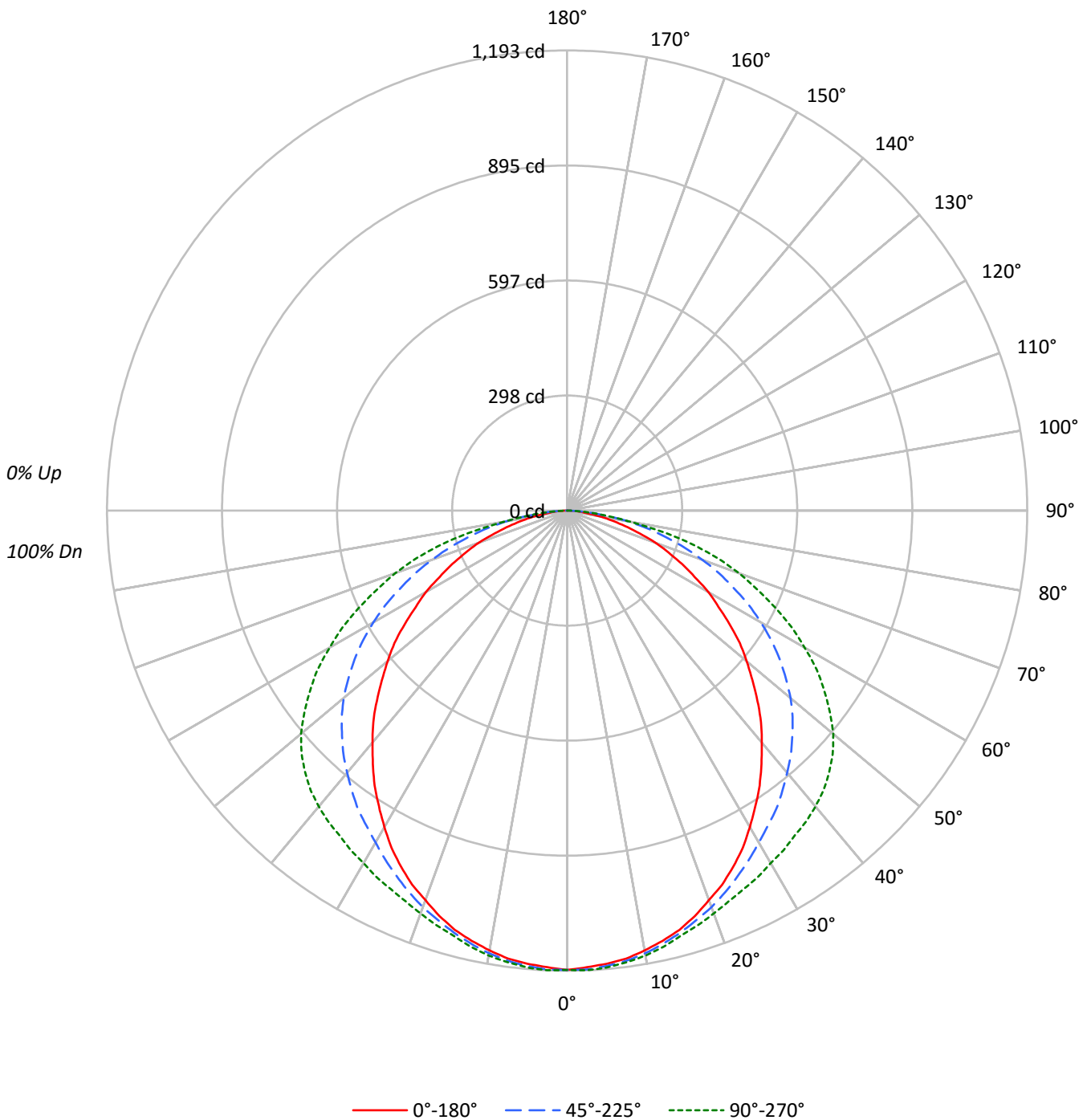
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3204	3204	3204
5°	3185	3201	3212
10°	3164	3185	3201
15°	3134	3156	3178
20°	3078	3133	3183
25°	3025	3105	3214
30°	2944	3088	3280
35°	2858	3105	3379
40°	2757	3117	3518
45°	2656	3142	3656
50°	2541	3165	3772
55°	2412	3156	3818
60°	2279	3122	3829
65°	2092	3040	3791
70°	1917	2936	3726
75°	1608	2753	3477
80°	1319	2456	2517
85°	954	1670	1670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.5	3.2
10°-20°	319.7	9.0
20°-30°	483.8	13.7
30°-40°	592.8	16.7
40°-50°	637.9	18.0
50°-60°	597.9	16.9
60°-70°	465.8	13.2
70°-80°	269.4	7.6
80°-90°	61.9	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°	915.9	25.9
0°-40°	1508.7	42.6
0°-60°	2744.4	77.5
0°-90°	3541.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3541.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1179	1181	1185	1187	1189	112
15°	1125	1125	1133	1141	1141	317
25°	1019	1025	1046	1071	1083	469
35°	870	887	945	1005	1028	543
45°	698	731	826	922	961	538
55°	514	570	673	777	814	460
65°	329	385	478	564	595	326
75°	155	201	265	315	334	167
85°	31	46	54	56	54	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1190.8	1190.8	1190.8	1190.8	1190.8
2.5°	1185.0	1187.0	1190.8	1192.8	1192.8
5°	1179.2	1181.2	1185.0	1187.0	1188.9
7.5°	1171.5	1173.4	1177.3	1181.2	1181.2
10°	1158.0	1159.9	1165.7	1169.6	1171.5
12.5°	1142.5	1144.4	1150.2	1154.1	1158.0
15°	1125.1	1125.1	1132.8	1140.6	1140.6
17.5°	1101.9	1105.8	1113.5	1123.2	1127.0
20°	1074.8	1080.6	1094.2	1105.8	1111.6
22.5°	1049.7	1055.5	1071.0	1088.4	1096.1
25°	1018.8	1024.6	1045.9	1071.0	1082.6
27.5°	985.9	995.6	1020.7	1057.5	1071.0
30°	947.3	958.9	993.7	1040.1	1055.5
32.5°	908.6	924.1	968.5	1024.6	1043.9
35°	869.9	887.3	945.3	1005.3	1028.5
37.5°	827.4	848.7	916.3	987.9	1016.9
40°	784.9	808.1	887.3	968.5	1001.4
42.5°	744.3	773.3	858.3	945.3	984.0
45°	697.9	730.7	825.5	922.1	960.8
47.5°	651.5	692.1	792.6	893.1	933.7
50°	607.0	649.5	755.9	860.3	900.9
52.5°	564.5	609.0	715.3	819.7	858.3
55°	514.2	570.3	672.7	777.1	813.9
57.5°	465.9	522.0	628.3	726.9	767.5
60°	423.4	471.7	580.0	674.7	711.4
62.5°	373.1	425.3	531.6	620.6	657.3
65°	328.6	384.7	477.5	564.5	595.4
67.5°	284.2	332.5	427.2	502.6	531.6
70°	243.6	288.0	373.1	442.7	473.6
72.5°	197.2	243.6	319.0	378.9	407.9
75°	154.7	201.1	264.8	315.1	334.4
77.5°	117.9	158.5	212.6	247.4	251.3
80°	85.1	116.0	158.5	168.2	162.4
82.5°	54.1	79.3	100.5	102.5	102.5
85°	30.9	46.4	54.1	56.1	54.1
87.5°	13.5	17.4	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)