

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: P220263

Luminaire Tested: **Z3-WG-2L30-LD5-UNV-24**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35866)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: Z3-WG-2L30-LD5-UNV-24  
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3655.1 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.44 / 1.48  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

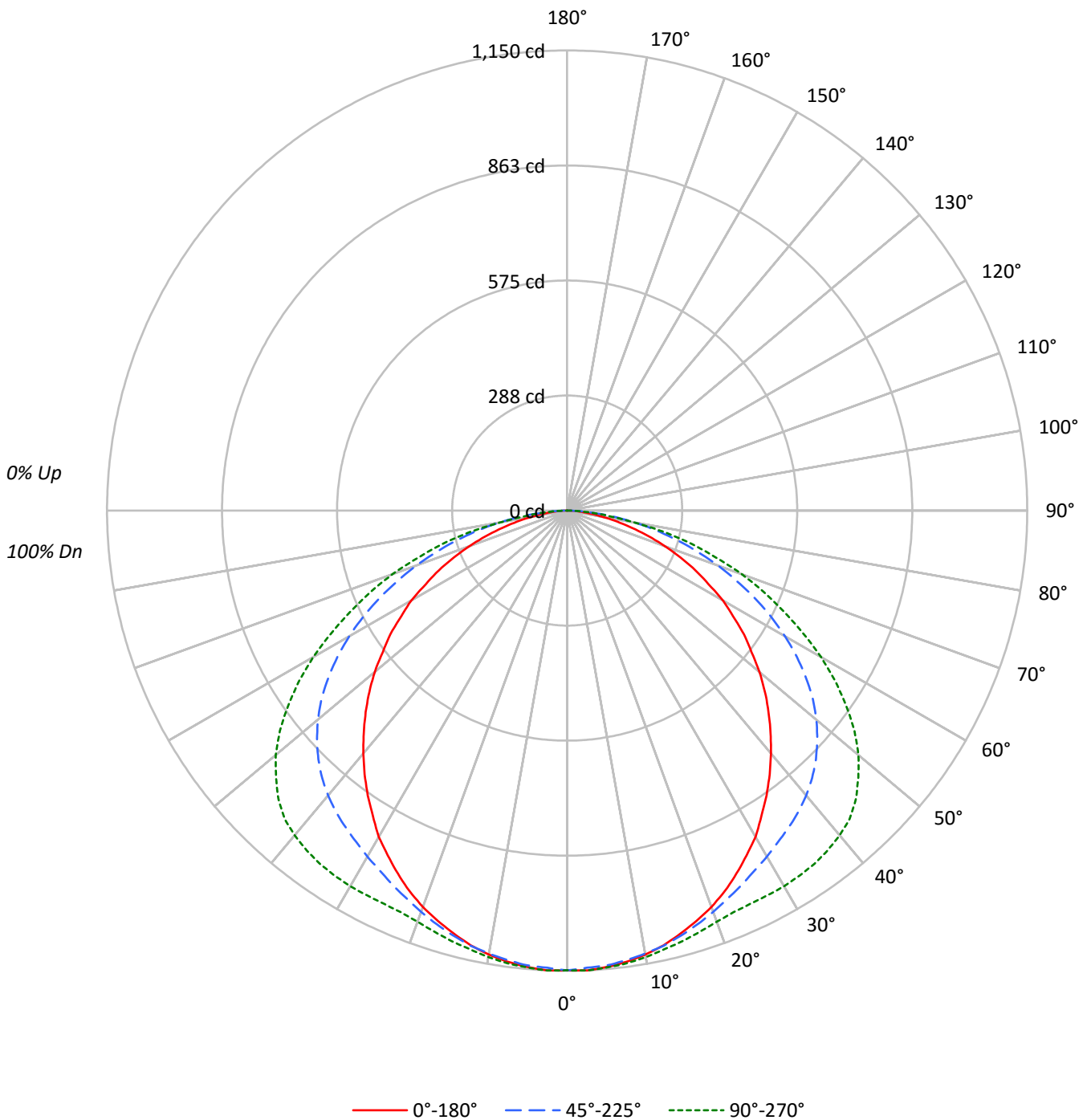
Input Watts (W): 30.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	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	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1546	1546	1546
5°	1546	1541	1548
10°	1539	1536	1548
15°	1524	1532	1552
20°	1509	1528	1565
25°	1486	1532	1609
30°	1463	1551	1684
35°	1427	1587	1770
40°	1392	1633	1861
45°	1355	1673	1942
50°	1314	1702	1990
55°	1265	1710	1998
60°	1211	1692	1971
65°	1127	1647	1903
70°	1020	1576	1826
75°	870	1470	1679
80°	704	1327	1296
85°	480	940	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.7	3.0
10°-20°	311.4	8.5
20°-30°	479.6	13.1
30°-40°	607.2	16.6
40°-50°	671.2	18.4
50°-60°	635.8	17.4
60°-70°	492.5	13.5
70°-80°	280.7	7.7
80°-90°	68.0	1.9
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°	899.7	24.6
0°-40°	1506.8	41.2
0°-60°	2813.9	77.0
0°-90°	3655.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1145	1144	1141	1145	1146	109
15°	1094	1097	1100	1110	1114	309
25°	1001	1009	1032	1070	1084	461
35°	869	891	966	1048	1078	543
45°	712	757	879	983	1020	549
55°	539	604	729	822	852	481
65°	354	416	517	584	598	349
75°	167	220	283	314	323	180
85°	31	57	61	60	60	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1148.9	1148.9	1148.9	1148.9	1148.9
2.5°	1150.2	1147.6	1143.7	1148.9	1150.2
5°	1145.0	1143.7	1141.1	1145.0	1146.3
7.5°	1137.2	1135.9	1133.3	1139.8	1141.1
10°	1126.8	1126.8	1124.2	1130.7	1133.3
12.5°	1112.6	1113.9	1113.9	1120.4	1122.9
15°	1094.4	1097.0	1099.6	1110.0	1113.9
17.5°	1075.0	1078.9	1084.0	1097.0	1103.5
20°	1054.2	1056.8	1067.2	1086.6	1093.1
22.5°	1029.6	1033.5	1049.0	1076.3	1086.6
25°	1001.1	1008.8	1032.2	1069.8	1084.0
27.5°	971.2	980.3	1014.0	1063.3	1084.0
30°	941.4	951.8	998.5	1059.4	1084.0
32.5°	903.8	922.0	981.6	1055.5	1081.5
35°	868.8	890.8	966.0	1047.7	1077.6
37.5°	831.2	858.4	949.2	1037.4	1069.8
40°	792.3	826.0	929.7	1024.4	1059.4
42.5°	752.1	792.3	906.4	1007.5	1045.1
45°	711.9	757.3	879.2	982.9	1020.5
47.5°	670.4	721.0	848.0	953.1	986.8
50°	627.6	683.4	813.0	916.8	950.5
52.5°	580.9	645.8	774.1	872.7	905.1
55°	539.4	604.3	728.8	822.1	851.9
57.5°	491.5	564.1	680.8	770.2	794.9
60°	450.0	513.5	628.9	710.6	732.6
62.5°	398.1	470.7	574.4	648.4	665.2
65°	354.0	416.2	517.4	583.5	597.8
67.5°	306.0	367.0	457.7	516.1	531.7
70°	259.3	315.1	400.7	447.4	464.2
72.5°	214.0	267.1	341.0	381.2	389.0
75°	167.3	220.4	282.7	313.8	322.9
77.5°	128.4	172.5	226.9	251.6	250.3
80°	90.8	129.7	171.2	175.1	167.3
82.5°	58.4	92.1	115.4	106.3	106.3
85°	31.1	57.1	60.9	59.6	59.6
87.5°	11.7	20.7	20.7	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)