

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: P220174

Luminaire Tested: **Z3-WD-5L40-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220174  
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-5L40-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (84) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3756.5 lumens  
Efficiency: N/A  
Efficacy: 105.5 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

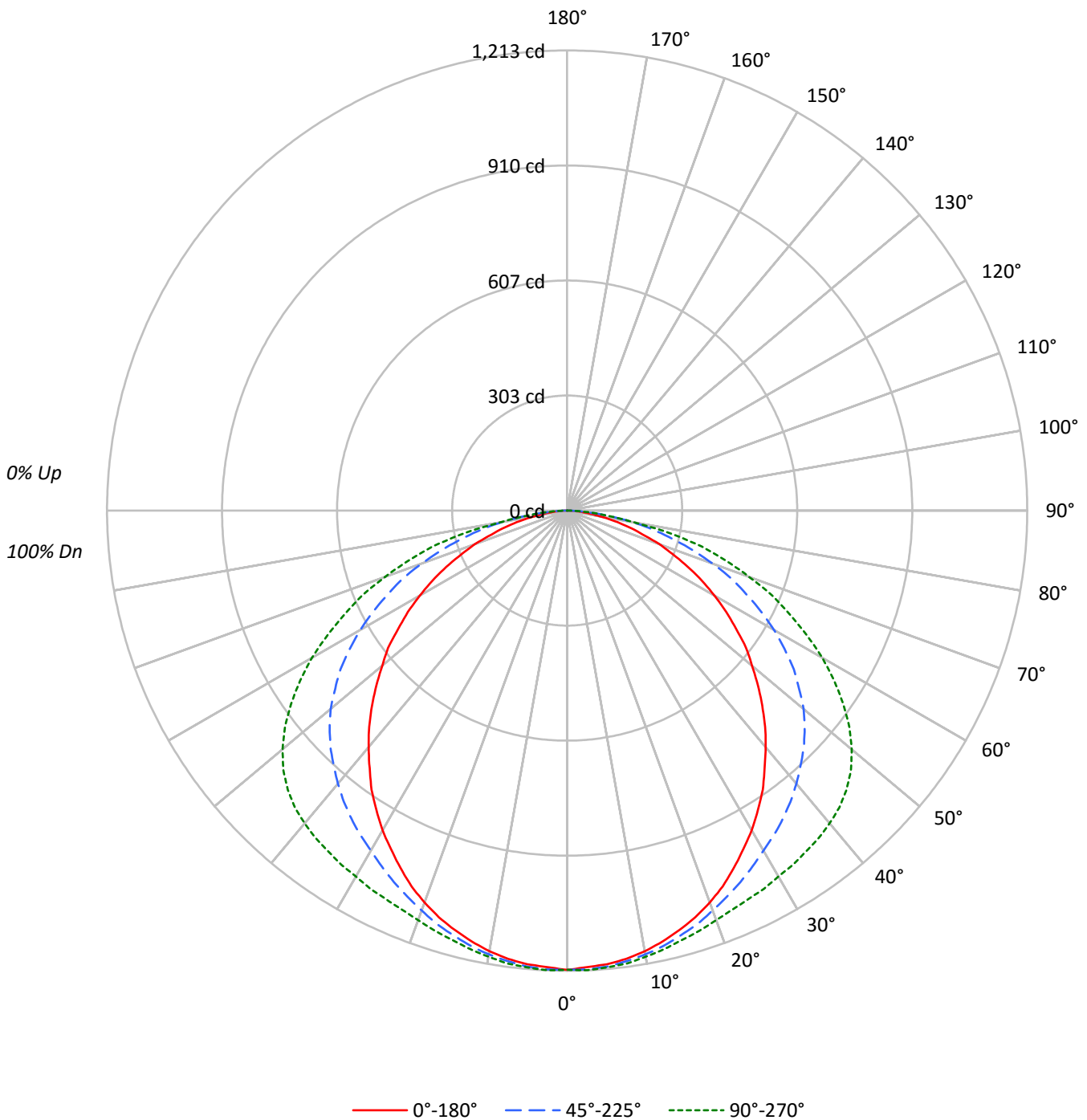
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3258	3258	3258
5°	3242	3259	3265
10°	3223	3246	3263
15°	3188	3229	3263
20°	3147	3212	3290
25°	3086	3208	3355
30°	3024	3216	3460
35°	2952	3257	3604
40°	2859	3302	3781
45°	2767	3357	3962
50°	2664	3408	4100
55°	2549	3422	4168
60°	2413	3391	4181
65°	2236	3315	4117
70°	2031	3202	4015
75°	1761	2986	3823
80°	1376	2689	2785
85°	1022	1849	1976



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.5	3.0
10°-20°	327.2	8.7
20°-30°	499.8	13.3
30°-40°	622.5	16.6
40°-50°	680.6	18.1
50°-60°	645.4	17.2
60°-70°	505.6	13.5
70°-80°	292.4	7.8
80°-90°	68.5	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°	941.5	25.1
0°-40°	1564.0	41.6
0°-60°	2890.0	76.9
0°-90°	3756.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3756.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1211	1211	1211	1211	1211	
5°	1200	1202	1206	1209	1209	114
15°	1144	1149	1159	1169	1171	323
25°	1039	1050	1080	1116	1130	479
35°	899	919	992	1068	1097	561
45°	727	771	882	996	1041	561
55°	543	610	729	845	888	487
65°	351	413	521	614	647	348
75°	169	215	287	343	368	179
85°	33	48	60	64	64	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1210.6	1210.6	1210.6	1210.6	1210.6
2.5°	1204.4	1206.5	1210.6	1212.7	1212.7
5°	1200.3	1202.4	1206.5	1208.6	1208.6
7.5°	1192.0	1194.1	1198.2	1202.4	1204.4
10°	1179.6	1181.7	1187.9	1194.1	1194.1
12.5°	1163.1	1167.3	1175.5	1181.7	1183.8
15°	1144.5	1148.7	1159.0	1169.3	1171.4
17.5°	1123.9	1130.1	1142.5	1154.9	1161.1
20°	1099.1	1103.2	1121.8	1140.4	1148.7
22.5°	1072.2	1078.4	1101.1	1128.0	1138.3
25°	1039.2	1049.5	1080.5	1115.6	1130.1
27.5°	1006.1	1020.6	1057.8	1105.3	1123.9
30°	973.1	987.5	1035.0	1092.9	1113.5
32.5°	935.9	954.5	1014.4	1080.5	1107.3
35°	898.7	919.3	991.6	1068.1	1097.0
37.5°	855.3	882.2	966.9	1053.6	1088.7
40°	814.0	842.9	940.0	1037.1	1076.4
42.5°	772.7	805.7	911.1	1018.5	1061.9
45°	727.2	770.6	882.2	995.8	1041.2
47.5°	681.8	731.3	849.1	968.9	1014.4
50°	636.3	688.0	814.0	935.9	979.3
52.5°	595.0	646.6	770.6	892.5	937.9
55°	543.3	609.5	729.3	845.0	888.4
57.5°	497.9	557.8	679.7	793.3	834.6
60°	448.3	508.2	630.1	737.5	776.8
62.5°	400.8	458.6	576.4	677.6	712.7
65°	351.2	413.2	520.6	613.6	646.6
67.5°	301.6	359.5	469.0	549.5	584.7
70°	258.2	312.0	407.0	481.4	510.3
72.5°	208.7	260.3	347.1	413.2	438.0
75°	169.4	214.9	287.2	342.9	367.7
77.5°	128.1	171.5	231.4	268.6	278.9
80°	88.8	126.0	173.5	188.0	179.7
82.5°	57.8	86.8	111.6	115.7	113.6
85°	33.1	47.5	59.9	64.0	64.0
87.5°	14.5	18.6	20.7	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)