

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: P220169

Luminaire Tested: **Z3-WD-6L35-LD5-UNV-22**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P220169  
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-6L35-LD5-UNV-22  
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE  
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY  
Light Source: (112) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4123.6 lumens  
Efficiency: N/A  
Efficacy: 103.3 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

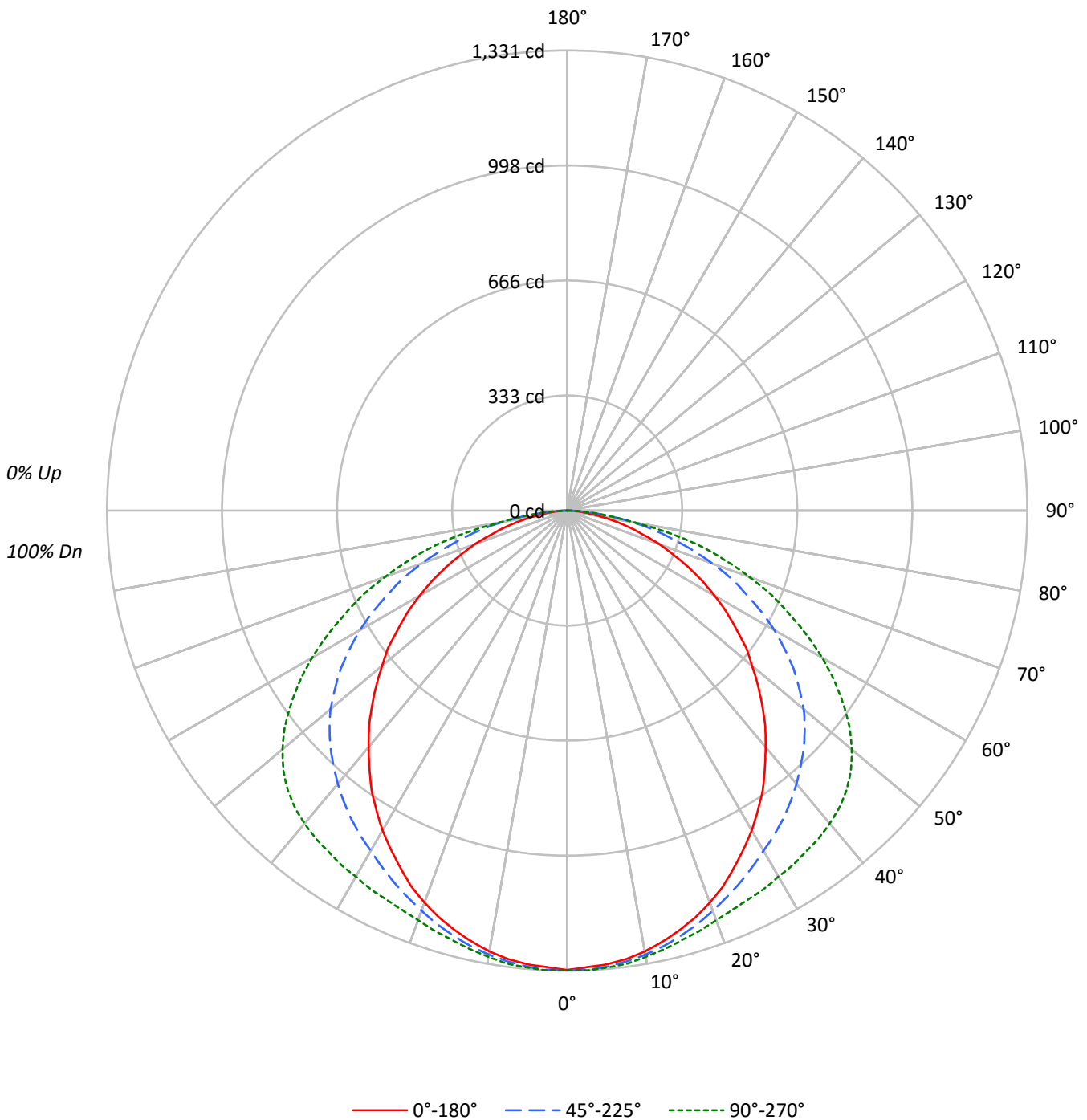
Input Watts (W): 39.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3576	3576	3576
5°	3559	3578	3584
10°	3538	3563	3582
15°	3500	3545	3582
20°	3455	3526	3611
25°	3387	3522	3683
30°	3319	3530	3798
35°	3241	3576	3956
40°	3139	3625	4150
45°	3038	3685	4350
50°	2924	3741	4500
55°	2798	3756	4575
60°	2648	3723	4589
65°	2455	3639	4520
70°	2231	3515	4408
75°	1934	3277	4197
80°	1511	2952	3058
85°	1121	2032	2171



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.7	3.0
10°-20°	359.2	8.7
20°-30°	548.7	13.3
30°-40°	683.3	16.6
40°-50°	747.1	18.1
50°-60°	708.5	17.2
60°-70°	555.1	13.5
70°-80°	320.9	7.8
80°-90°	75.2	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°	1033.5	25.1
0°-40°	1716.8	41.6
0°-60°	3172.4	76.9
0°-90°	4123.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4123.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1318	1320	1324	1327	1327	125
15°	1256	1261	1272	1284	1286	354
25°	1141	1152	1186	1225	1240	526
35°	986	1009	1089	1172	1204	616
45°	798	846	968	1093	1143	616
55°	596	669	800	928	975	535
65°	386	454	572	674	710	382
75°	186	236	315	376	404	197
85°	36	52	66	70	70	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1329.0	1329.0	1329.0	1329.0	1329.0
2.5°	1322.1	1324.4	1329.0	1331.2	1331.2
5°	1317.6	1319.9	1324.4	1326.7	1326.7
7.5°	1308.5	1310.8	1315.3	1319.9	1322.1
10°	1294.9	1297.2	1304.0	1310.8	1310.8
12.5°	1276.8	1281.3	1290.4	1297.2	1299.5
15°	1256.4	1260.9	1272.3	1283.6	1285.9
17.5°	1233.7	1240.5	1254.1	1267.7	1274.5
20°	1206.5	1211.0	1231.4	1251.8	1260.9
22.5°	1177.0	1183.8	1208.8	1238.2	1249.6
25°	1140.7	1152.1	1186.1	1224.6	1240.5
27.5°	1104.4	1120.3	1161.1	1213.3	1233.7
30°	1068.2	1084.0	1136.2	1199.7	1222.4
32.5°	1027.3	1047.7	1113.5	1186.1	1215.6
35°	986.5	1009.2	1088.6	1172.5	1204.2
37.5°	938.9	968.4	1061.3	1156.6	1195.2
40°	893.5	925.3	1031.9	1138.5	1181.5
42.5°	848.2	884.5	1000.1	1118.0	1165.7
45°	798.3	845.9	968.4	1093.1	1143.0
47.5°	748.4	802.8	932.1	1063.6	1113.5
50°	698.5	755.2	893.5	1027.3	1075.0
52.5°	653.1	709.8	845.9	979.7	1029.6
55°	596.4	669.0	800.5	927.5	975.2
57.5°	546.5	612.3	746.1	870.8	916.2
60°	492.1	557.9	691.7	809.6	852.7
62.5°	440.0	503.5	632.7	743.9	782.4
65°	385.5	453.6	571.5	673.5	709.8
67.5°	331.1	394.6	514.8	603.2	641.8
70°	283.5	342.4	446.8	528.4	560.2
72.5°	229.1	285.7	381.0	453.6	480.8
75°	186.0	235.9	315.2	376.5	403.7
77.5°	140.6	188.2	254.0	294.8	306.2
80°	97.5	138.3	190.5	206.4	197.3
82.5°	63.5	95.2	122.5	127.0	124.7
85°	36.3	52.2	65.8	70.3	70.3
87.5°	15.9	20.4	22.7	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)