

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: P220281

Luminaire Tested: **Z3-WD-1L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35867)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-1L35-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

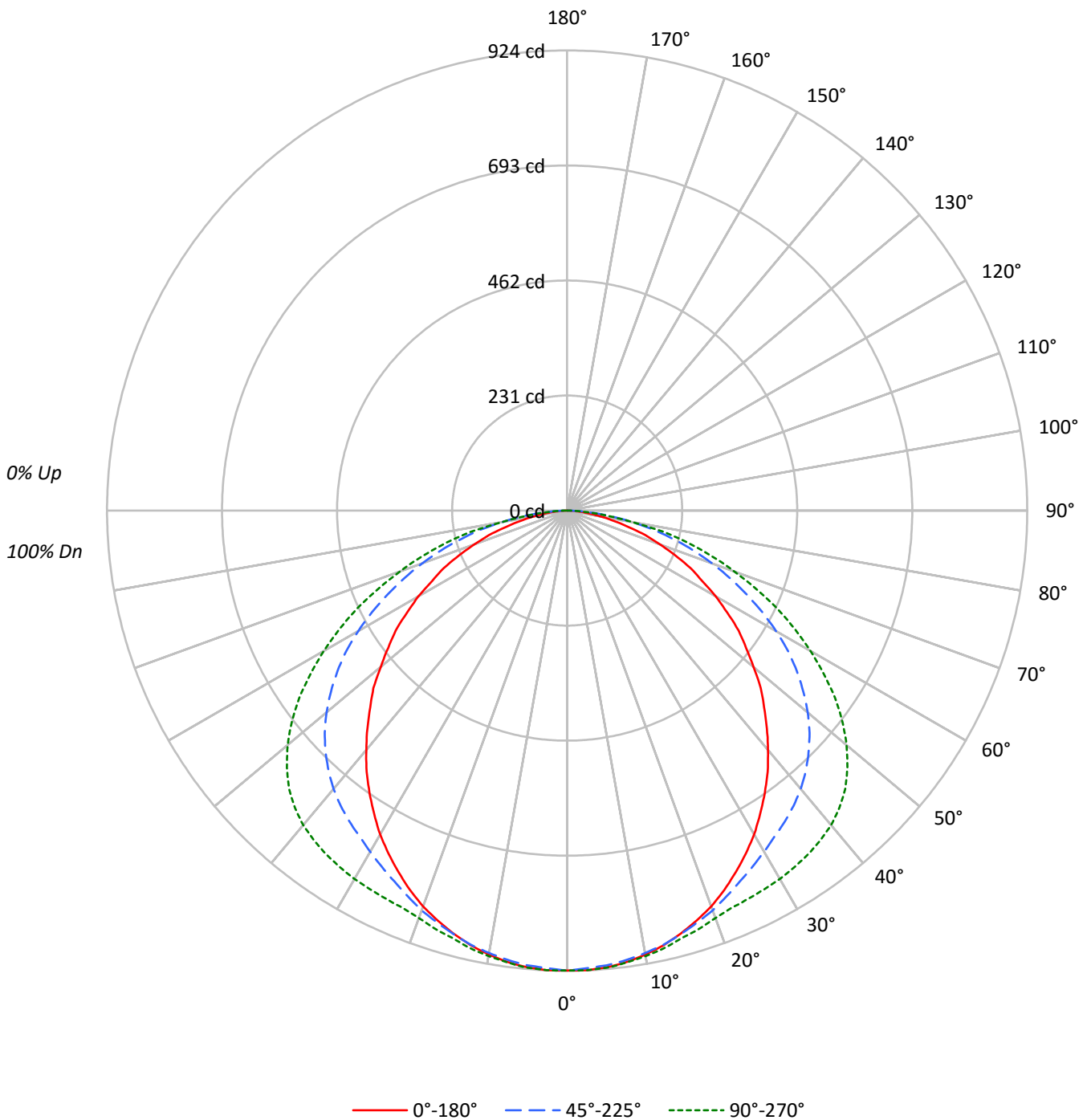
Lumens per Lamp: N/A
Luminaire Lumens: 2864.0 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 22.9
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	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	34	48	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	28	54	41	33	27	40	32	27	39	32	27	38	32	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°	1243	1243	1243
5°	1243	1238	1245
10°	1237	1232	1241
15°	1225	1227	1238
20°	1211	1223	1246
25°	1189	1220	1277
30°	1167	1229	1327
35°	1136	1252	1385
40°	1102	1282	1448
45°	1064	1305	1503
50°	1023	1320	1534
55°	986	1321	1542
60°	928	1304	1519
65°	871	1264	1482
70°	779	1216	1405
75°	663	1146	1311
80°	530	1028	1028
85°	378	741	709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	3.0
10°-20°	249.4	8.7
20°-30°	381.9	13.3
30°-40°	478.8	16.7
40°-50°	523.5	18.3
50°-60°	491.6	17.2
60°-70°	379.6	13.3
70°-80°	218.3	7.6
80°-90°	53.5	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°	718.6	25.1
0°-40°	1197.4	41.8
0°-60°	2212.6	77.3
0°-90°	2864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2864.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	920	918	916	920	922	87
15°	880	881	881	888	889	248
25°	801	806	822	848	860	369
35°	692	707	762	822	843	433
45°	559	594	686	763	790	432
55°	420	468	563	636	657	374
65°	274	320	397	449	465	268
75°	128	170	220	247	252	138
85°	24	45	48	46	46	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923.6	923.6	923.6	923.6	923.6
2.5°	923.6	922.6	919.5	922.6	923.6
5°	920.5	918.5	916.4	919.5	921.5
7.5°	914.4	913.4	910.3	915.4	915.4
10°	905.2	904.2	902.1	907.2	908.3
12.5°	894.0	893.0	893.0	899.1	900.1
15°	879.7	880.7	880.7	887.9	888.9
17.5°	863.4	863.4	867.4	876.6	880.7
20°	846.0	847.0	854.2	865.4	870.5
22.5°	824.6	828.7	837.8	856.2	863.4
25°	801.1	806.2	821.5	848.1	860.3
27.5°	776.6	783.8	806.2	841.9	857.2
30°	751.1	760.3	790.9	836.8	854.2
32.5°	721.5	733.8	775.6	829.7	849.1
35°	691.9	707.2	762.3	822.5	843.0
37.5°	661.3	678.6	747.0	811.3	834.8
40°	627.6	652.1	729.7	799.1	824.6
42.5°	593.9	623.5	709.3	783.8	809.3
45°	559.2	593.9	685.8	763.4	789.9
47.5°	527.6	564.3	660.3	737.8	763.4
50°	488.8	534.8	630.7	708.2	732.7
52.5°	453.1	503.1	598.0	674.6	697.0
55°	420.5	468.4	563.3	635.8	657.2
57.5°	380.7	432.7	526.6	593.9	611.3
60°	344.9	396.0	484.7	547.0	564.3
62.5°	305.1	362.3	441.9	500.1	515.4
65°	273.5	320.4	397.0	449.0	465.4
67.5°	234.7	281.7	353.1	399.0	410.3
70°	198.0	242.9	309.2	348.0	357.2
72.5°	165.3	205.1	265.3	297.0	305.1
75°	127.6	170.4	220.4	247.0	252.1
77.5°	96.9	134.7	177.6	194.9	199.0
80°	68.4	103.1	132.7	139.8	132.7
82.5°	43.9	72.5	90.8	86.7	83.7
85°	24.5	44.9	48.0	45.9	45.9
87.5°	10.2	16.3	16.3	15.3	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)