

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: P220011

Luminaire Tested: **Z3-WL-2L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35873)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-2L40-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3168.5 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.31
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

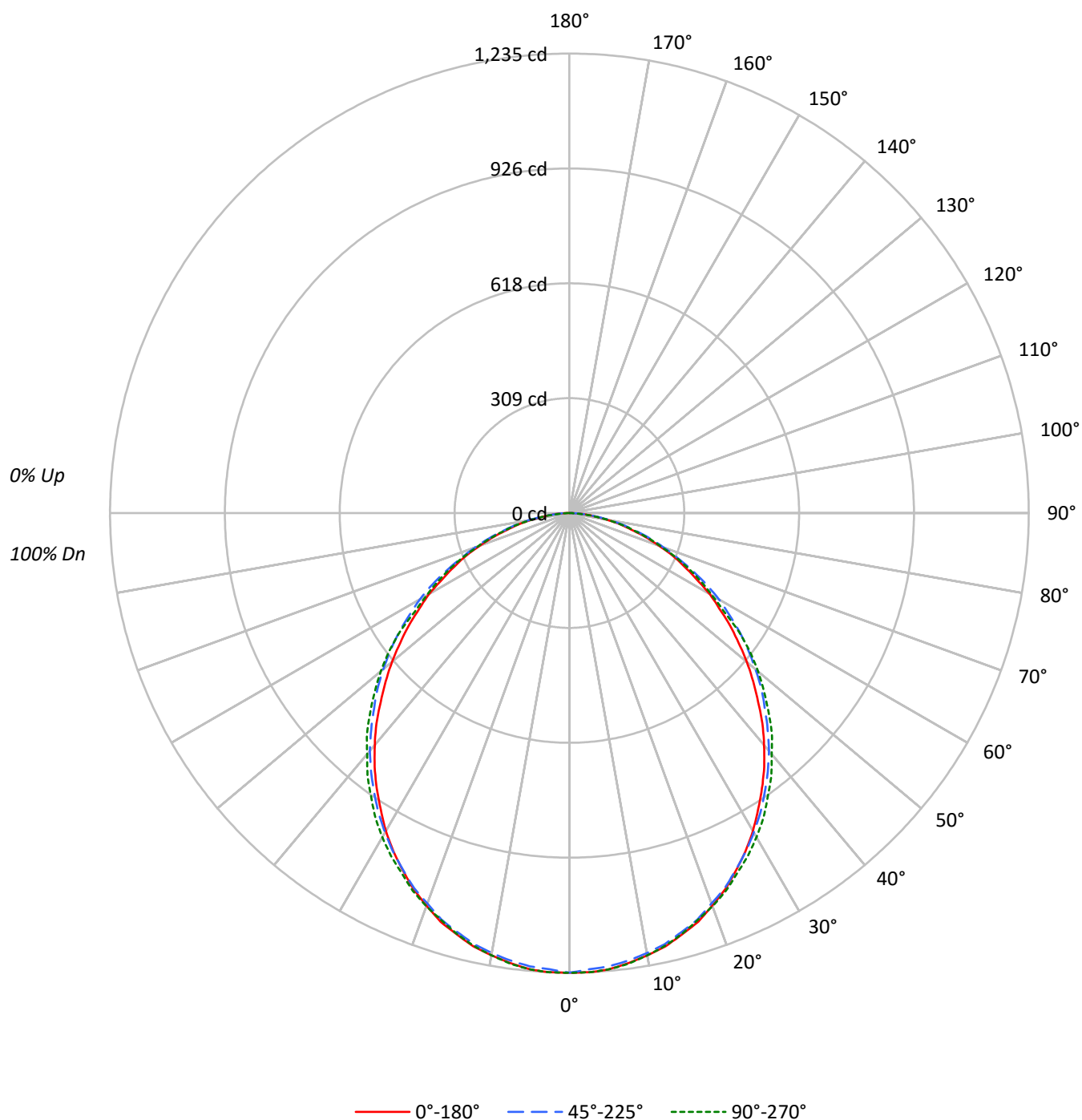
Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
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	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60		
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31		
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28		
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3324	3324	3324
5°	3324	3303	3324
10°	3298	3281	3298
15°	3265	3248	3261
20°	3216	3198	3220
25°	3146	3141	3170
30°	3066	3081	3125
35°	2966	3007	3054
40°	2860	2932	2971
45°	2731	2827	2881
50°	2606	2732	2772
55°	2474	2623	2608
60°	2344	2498	2387
65°	2178	2309	2249
70°	2006	2119	2056
75°	1795	1910	1861
80°	1571	1694	1596
85°	1321	1272	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	3.7
10°-20°	329.9	10.4
20°-30°	489.5	15.4
30°-40°	573.3	18.1
40°-50°	572.0	18.1
50°-60°	491.7	15.5
60°-70°	352.9	11.1
70°-80°	193.9	6.1
80°-90°	48.8	1.5
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°	935.9	29.5
0°-40°	1509.1	47.6
0°-60°	2572.8	81.2
0°-90°	3168.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3168.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1231	1229	1223	1231	1231	117
15°	1172	1170	1166	1172	1170	331
25°	1060	1060	1058	1068	1068	488
35°	903	906	916	928	930	564
45°	718	725	743	757	757	554
55°	527	542	559	562	556	471
65°	342	358	363	356	353	340
75°	173	185	184	184	179	185
85°	43	44	41	36	38	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235.4	1235.4	1235.4	1235.4	1235.4
2.5°	1235.4	1233.8	1227.5	1235.4	1235.4
5°	1230.7	1229.1	1222.8	1230.7	1230.7
7.5°	1219.6	1219.6	1213.3	1219.6	1221.2
10°	1206.9	1206.9	1200.6	1208.5	1206.9
12.5°	1192.7	1189.5	1186.3	1192.7	1191.1
15°	1172.1	1170.5	1165.7	1172.1	1170.5
17.5°	1151.5	1148.3	1145.1	1149.9	1146.7
20°	1123.0	1121.4	1116.6	1124.6	1124.6
22.5°	1094.5	1092.9	1091.3	1097.6	1099.2
25°	1059.6	1059.6	1058.0	1067.5	1067.5
27.5°	1024.8	1024.8	1026.4	1037.4	1039.0
30°	986.8	986.8	991.5	1004.2	1005.8
32.5°	944.0	947.2	955.1	969.3	970.9
35°	902.8	906.0	915.5	928.2	929.7
37.5°	860.0	863.2	875.9	888.6	891.7
40°	814.1	817.3	834.7	845.8	845.8
42.5°	768.2	772.9	788.8	803.0	806.2
45°	717.5	725.4	742.8	757.1	757.1
47.5°	670.0	681.1	700.1	712.7	709.6
50°	622.5	633.6	652.6	663.6	662.1
52.5°	573.4	586.0	606.6	614.5	611.4
55°	527.4	541.7	559.1	562.3	555.9
57.5°	478.3	494.2	510.0	510.0	492.6
60°	435.6	448.2	464.1	446.7	443.5
62.5°	384.9	403.9	415.0	399.1	399.1
65°	342.1	358.0	362.7	356.4	353.2
67.5°	300.9	313.6	313.6	310.4	308.9
70°	255.0	269.3	269.3	264.5	261.3
72.5°	213.8	228.1	226.5	226.5	220.2
75°	172.6	185.3	183.7	183.7	179.0
77.5°	137.8	144.1	147.3	142.5	141.0
80°	101.4	107.7	109.3	104.5	103.0
82.5°	68.1	74.4	74.4	71.3	68.1
85°	42.8	44.3	41.2	36.4	38.0
87.5°	19.0	17.4	14.3	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)