

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: P220025

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35874)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-2L40-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2827.4 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

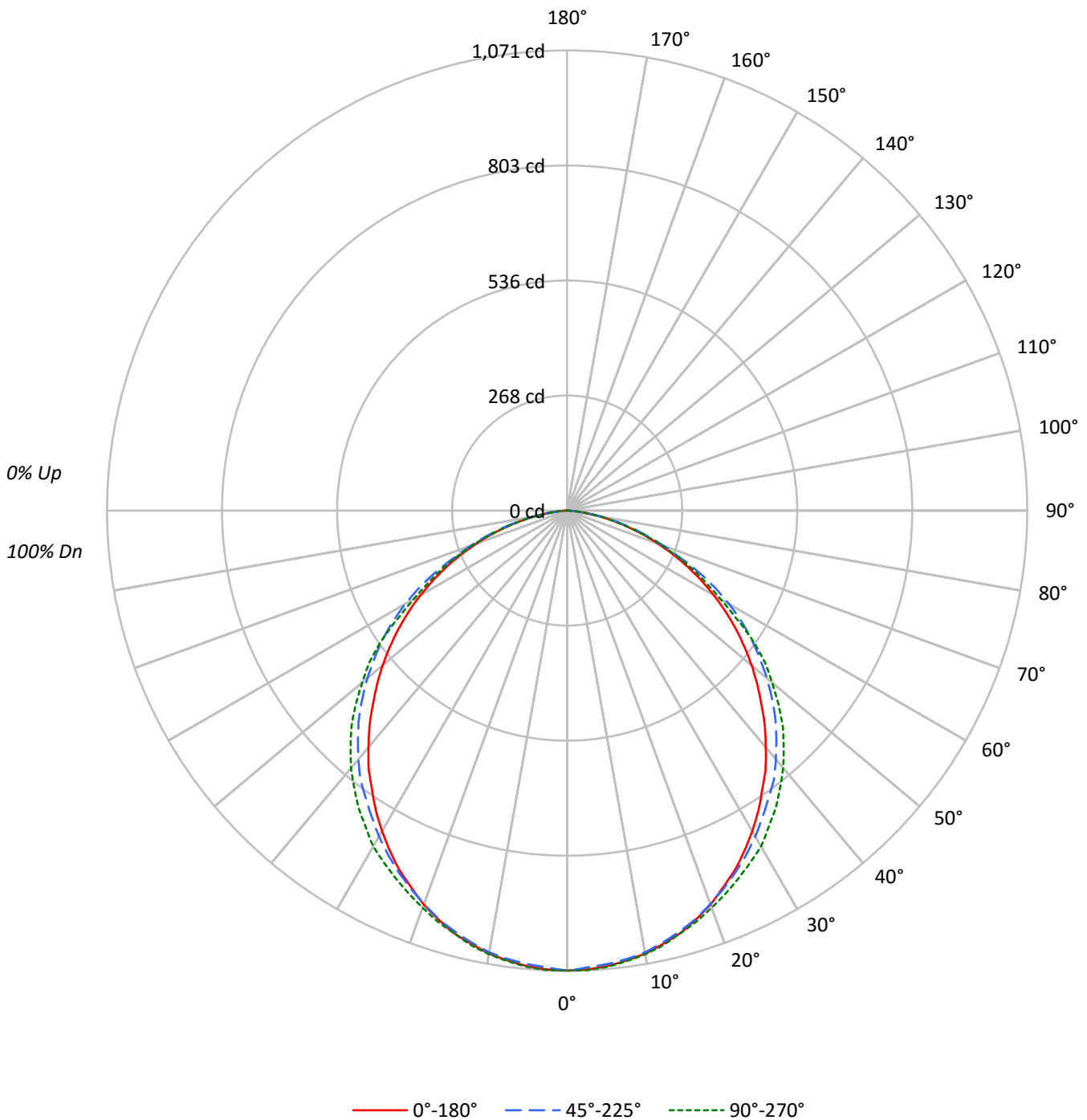
Input Watts (W): 23.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	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	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2881	2881	2881
5°	2875	2862	2880
10°	2861	2852	2865
15°	2837	2824	2837
20°	2794	2790	2817
25°	2742	2756	2803
30°	2677	2722	2805
35°	2601	2685	2779
40°	2526	2654	2748
45°	2435	2610	2700
50°	2347	2539	2606
55°	2244	2460	2474
60°	2123	2344	2216
65°	1967	2138	2047
70°	1769	1869	1819
75°	1498	1597	1515
80°	1178	1227	1130
85°	781	735	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	3.6
10°-20°	286.9	10.1
20°-30°	429.4	15.2
30°-40°	512.4	18.1
40°-50°	523.4	18.5
50°-60°	458.5	16.2
60°-70°	322.2	11.4
70°-80°	161.9	5.7
80°-90°	31.8	1.1
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°	817.2	28.9
0°-40°	1329.7	47.0
0°-60°	2311.5	81.8
0°-90°	2827.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2827.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1071	1071	1071	1071	1071	
5°	1064	1064	1060	1066	1066	101
15°	1018	1017	1014	1020	1018	287
25°	923	925	928	941	944	425
35°	792	798	817	840	846	496
45°	640	653	686	705	710	494
55°	478	502	524	532	527	428
65°	309	328	336	323	322	306
75°	144	158	154	149	146	155
85°	25	27	24	21	19	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1070.7	1070.7	1070.7	1070.7	1070.7
2.5°	1069.1	1069.1	1064.4	1070.7	1070.7
5°	1064.4	1064.4	1059.6	1066.0	1066.0
7.5°	1056.4	1056.4	1053.3	1058.0	1058.0
10°	1046.9	1046.9	1043.8	1048.5	1048.5
12.5°	1032.7	1032.7	1029.5	1034.3	1035.9
15°	1018.4	1016.9	1013.7	1020.0	1018.4
17.5°	997.8	997.8	996.3	1002.6	1002.6
20°	975.7	977.3	974.1	982.0	983.6
22.5°	948.7	950.3	951.9	961.4	964.6
25°	923.4	925.0	928.2	940.8	944.0
27.5°	893.3	896.5	902.8	917.1	923.4
30°	861.6	866.4	875.9	894.9	902.8
32.5°	828.4	834.7	845.8	869.6	872.7
35°	791.9	798.3	817.3	839.5	845.8
37.5°	758.7	765.0	790.4	809.4	814.1
40°	719.1	728.6	755.5	776.1	782.4
42.5°	681.1	690.6	720.7	741.3	746.0
45°	639.9	652.6	685.8	704.8	709.6
47.5°	600.3	614.5	646.2	663.6	666.8
50°	560.7	576.5	606.6	624.0	622.5
52.5°	519.5	536.9	565.4	579.7	579.7
55°	478.3	502.1	524.3	532.2	527.4
57.5°	437.2	457.7	481.5	481.5	467.2
60°	394.4	415.0	435.6	422.9	411.8
62.5°	351.6	372.2	386.5	367.5	364.3
65°	308.9	327.9	335.8	323.1	321.5
67.5°	266.1	285.1	281.9	280.3	274.0
70°	224.9	242.3	237.6	234.4	231.2
72.5°	185.3	201.2	194.8	190.1	188.5
75°	144.1	158.4	153.6	148.9	145.7
77.5°	107.7	117.2	115.6	110.9	107.7
80°	76.0	82.4	79.2	76.0	72.9
82.5°	45.9	52.3	49.1	44.3	42.8
85°	25.3	26.9	23.8	20.6	19.0
87.5°	9.5	7.9	6.3	6.3	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)