

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: P220262

Luminaire Tested: **Z3-WL-5L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220262
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35865)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-5L40-LD5-UNV-24
Description: CLASS Z3 2X4 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: 7191.5 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.31 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

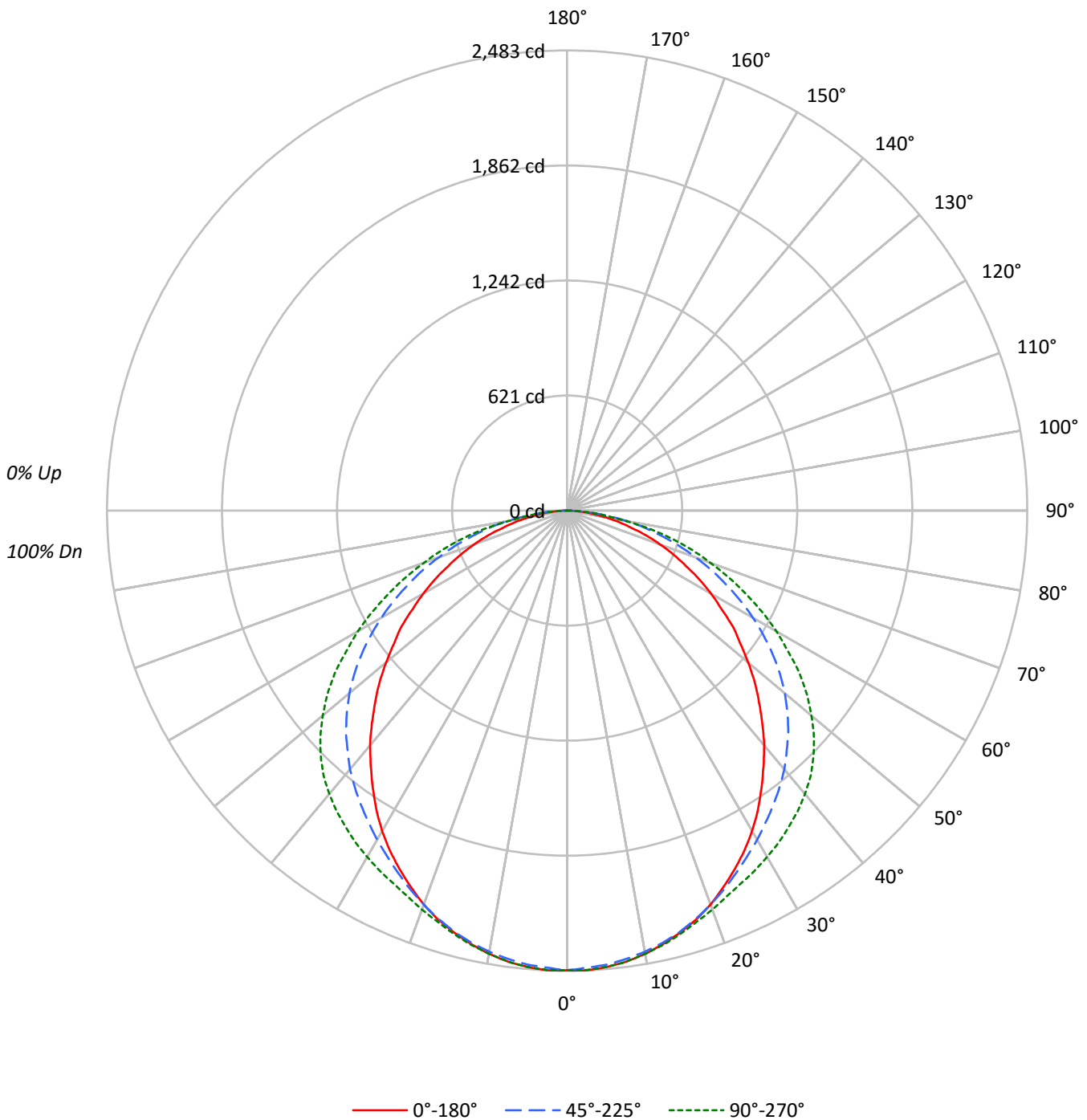
Input Watts (W): 58.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3338	3338	3338
5°	3338	3321	3338
10°	3318	3302	3318
15°	3283	3277	3293
20°	3239	3239	3280
25°	3172	3203	3295
30°	3102	3186	3352
35°	3002	3186	3423
40°	2906	3202	3506
45°	2787	3211	3577
50°	2668	3210	3602
55°	2561	3179	3592
60°	2415	3117	3513
65°	2252	3015	3386
70°	2101	2895	3231
75°	1863	2740	3035
80°	1637	2557	2428
85°	1392	2016	1979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	3.3
10°-20°	665.3	9.3
20°-30°	1001.8	13.9
30°-40°	1220.5	17.0
40°-50°	1293.9	18.0
50°-60°	1189.1	16.5
60°-70°	910.9	12.7
70°-80°	532.3	7.4
80°-90°	143.5	2.0
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°	1901.2	26.4
0°-40°	3121.8	43.4
0°-60°	5604.7	77.9
0°-90°	7191.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7191.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2481	2481	2481	2481	2481	
5°	2471	2466	2459	2471	2471	235
15°	2357	2357	2352	2364	2364	665
25°	2136	2146	2158	2203	2220	984
35°	1828	1852	1939	2046	2084	1144
45°	1465	1522	1688	1832	1880	1131
55°	1092	1177	1355	1488	1531	971
65°	707	800	947	1044	1063	705
75°	358	439	527	579	584	386
85°	90	126	131	133	128	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2480.6	2480.6	2480.6	2480.6	2480.6
2.5°	2483.0	2478.2	2468.7	2480.6	2480.6
5°	2471.1	2466.3	2459.2	2471.1	2471.1
7.5°	2454.5	2449.7	2440.2	2454.5	2454.5
10°	2428.4	2426.0	2416.5	2430.7	2428.4
12.5°	2395.1	2395.1	2388.0	2399.9	2399.9
15°	2357.1	2357.1	2352.4	2364.3	2364.3
17.5°	2314.4	2314.4	2309.7	2326.3	2326.3
20°	2262.2	2257.4	2262.2	2285.9	2290.7
22.5°	2200.5	2202.9	2212.3	2243.2	2252.7
25°	2136.4	2145.9	2157.7	2202.9	2219.5
27.5°	2069.9	2079.4	2103.2	2167.2	2191.0
30°	1996.3	2008.2	2050.9	2129.3	2157.7
32.5°	1915.6	1934.6	1994.0	2091.3	2124.5
35°	1827.8	1851.5	1939.4	2046.2	2084.2
37.5°	1740.0	1773.2	1882.4	2003.5	2043.8
40°	1654.5	1690.1	1823.0	1953.6	1996.3
42.5°	1559.6	1607.0	1754.2	1894.3	1944.1
45°	1464.6	1521.6	1687.7	1832.5	1880.0
47.5°	1374.4	1436.1	1611.8	1761.3	1806.4
50°	1274.7	1355.4	1533.4	1675.9	1721.0
52.5°	1177.4	1265.2	1448.0	1592.8	1630.8
55°	1091.9	1177.4	1355.4	1488.3	1531.1
57.5°	987.5	1089.6	1258.1	1383.9	1412.4
60°	897.3	985.1	1158.4	1274.7	1305.6
62.5°	804.7	899.7	1056.3	1156.0	1186.9
65°	707.4	800.0	947.1	1044.5	1063.4
67.5°	621.9	712.1	847.4	921.0	944.8
70°	534.1	612.4	735.9	809.5	821.3
72.5°	448.6	527.0	633.8	690.8	707.4
75°	358.4	439.1	527.0	579.2	583.9
77.5°	284.9	353.7	429.7	458.1	460.5
80°	211.3	273.0	330.0	327.6	313.3
82.5°	144.8	192.3	223.1	218.4	208.9
85°	90.2	125.8	130.6	132.9	128.2
87.5°	40.4	49.8	54.6	54.6	52.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)