

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: P220191

Luminaire Tested: **Z3-WN-5L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35860)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-5L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3993.8 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

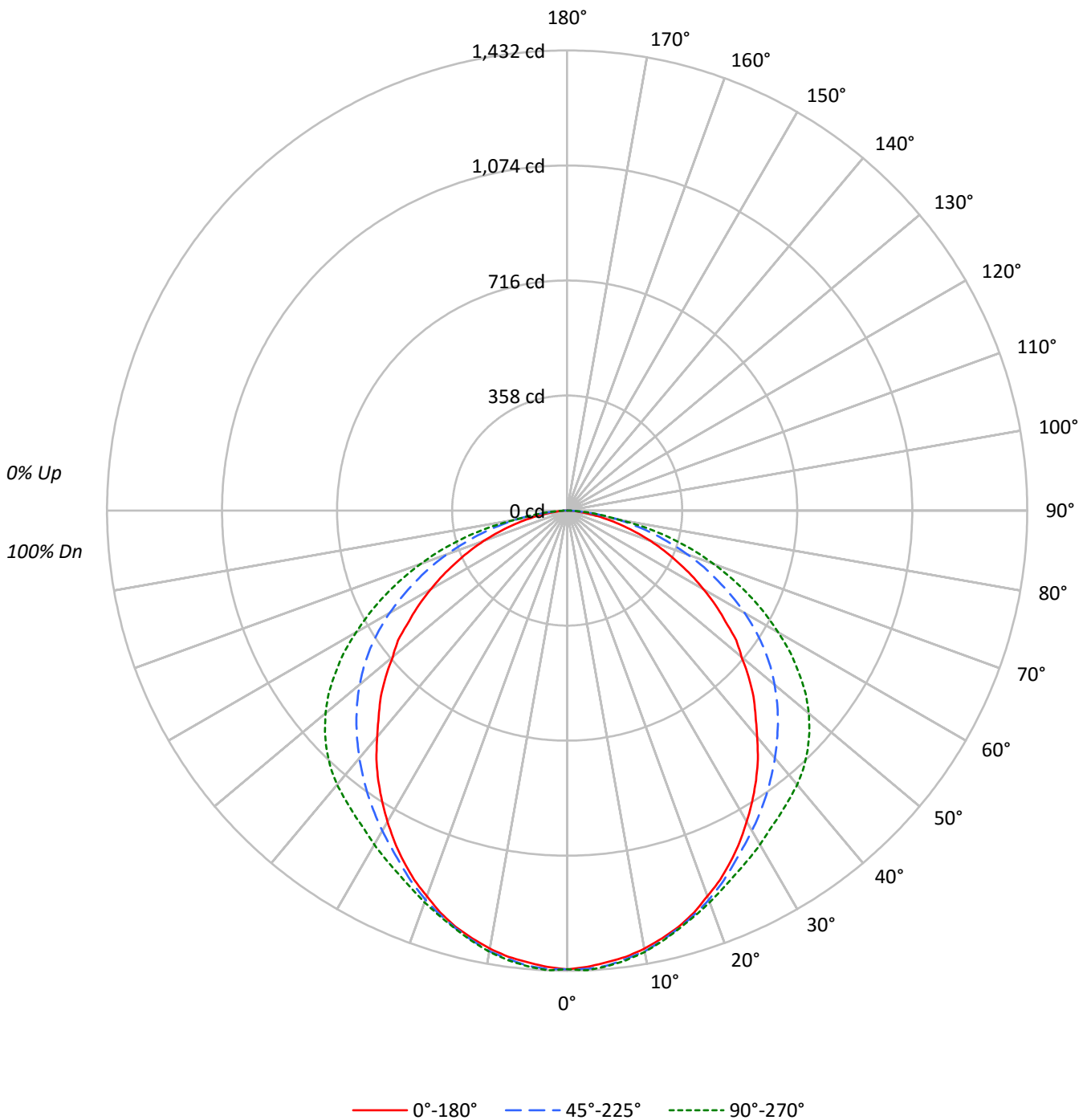
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3842	3842	3842
5°	3811	3840	3845
10°	3782	3805	3810
15°	3735	3747	3753
20°	3656	3692	3715
25°	3576	3619	3699
30°	3473	3576	3730
35°	3366	3550	3794
40°	3229	3534	3912
45°	3121	3530	4026
50°	2966	3529	4108
55°	2821	3509	4129
60°	2635	3436	4081
65°	2420	3301	3986
70°	2178	3137	3820
75°	1826	2878	3501
80°	1409	2529	2562
85°	1022	1723	1849



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	3.4
10°-20°	379.1	9.5
20°-30°	564.0	14.1
30°-40°	679.2	17.0
40°-50°	719.3	18.0
50°-60°	665.1	16.7
60°-70°	506.5	12.7
70°-80°	281.9	7.1
80°-90°	64.2	1.6
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°	1077.6	27.0
0°-40°	1756.8	44.0
0°-60°	3141.2	78.7
0°-90°	3993.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3993.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1411	1415	1421	1423	1423	134
15°	1341	1343	1345	1347	1347	377
25°	1204	1206	1219	1235	1246	554
35°	1025	1035	1080	1134	1155	640
45°	820	845	928	1021	1058	631
55°	601	651	748	845	880	539
65°	380	430	518	597	626	377
75°	176	215	277	322	337	188
85°	33	46	56	60	60	40
90°	0	0	0	0	0	



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CATALOG NUMBER: Z3-WN-5L40-LD5-UNV-22

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.6	1427.6	1427.6	1427.6	1427.6
2.5°	1421.4	1423.4	1427.6	1431.7	1431.7
5°	1411.0	1415.2	1421.4	1423.4	1423.4
7.5°	1400.7	1402.8	1406.9	1411.0	1411.0
10°	1384.2	1386.2	1392.4	1394.5	1394.5
12.5°	1363.5	1365.6	1369.7	1371.8	1371.8
15°	1340.8	1342.9	1344.9	1347.0	1347.0
17.5°	1311.9	1313.9	1318.1	1322.2	1322.2
20°	1276.7	1282.9	1289.1	1293.3	1297.4
22.5°	1243.7	1245.8	1256.1	1266.4	1270.5
25°	1204.4	1206.5	1218.9	1235.4	1245.8
27.5°	1163.1	1169.3	1183.8	1212.7	1223.0
30°	1117.7	1125.9	1150.7	1185.8	1200.3
32.5°	1072.2	1080.5	1115.6	1159.0	1175.5
35°	1024.7	1035.0	1080.5	1134.2	1154.9
37.5°	975.1	987.5	1043.3	1107.3	1134.2
40°	919.3	940.0	1006.1	1080.5	1113.5
42.5°	867.7	892.5	966.9	1051.6	1088.7
45°	820.2	845.0	927.6	1020.6	1057.8
47.5°	766.5	797.4	886.3	985.4	1022.6
50°	708.6	747.9	842.9	944.1	981.3
52.5°	663.2	698.3	797.4	898.7	935.9
55°	601.2	650.8	747.9	845.0	880.1
57.5°	547.5	592.9	694.2	789.2	824.3
60°	489.6	537.1	638.4	727.2	758.2
62.5°	435.9	481.4	578.5	665.2	694.2
65°	380.1	429.7	518.5	597.1	626.0
67.5°	326.4	373.9	460.7	533.0	555.7
70°	276.8	318.2	398.7	458.6	485.5
72.5°	223.1	264.4	334.7	390.5	413.2
75°	175.6	214.9	276.8	322.3	336.7
77.5°	130.2	167.3	216.9	252.0	258.2
80°	90.9	121.9	163.2	169.4	165.3
82.5°	57.8	80.6	103.3	105.4	105.4
85°	33.1	45.5	55.8	59.9	59.9
87.5°	12.4	16.5	20.7	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)