

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: P220300

Luminaire Tested: **Z3-WN-1L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35868)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-1L40-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

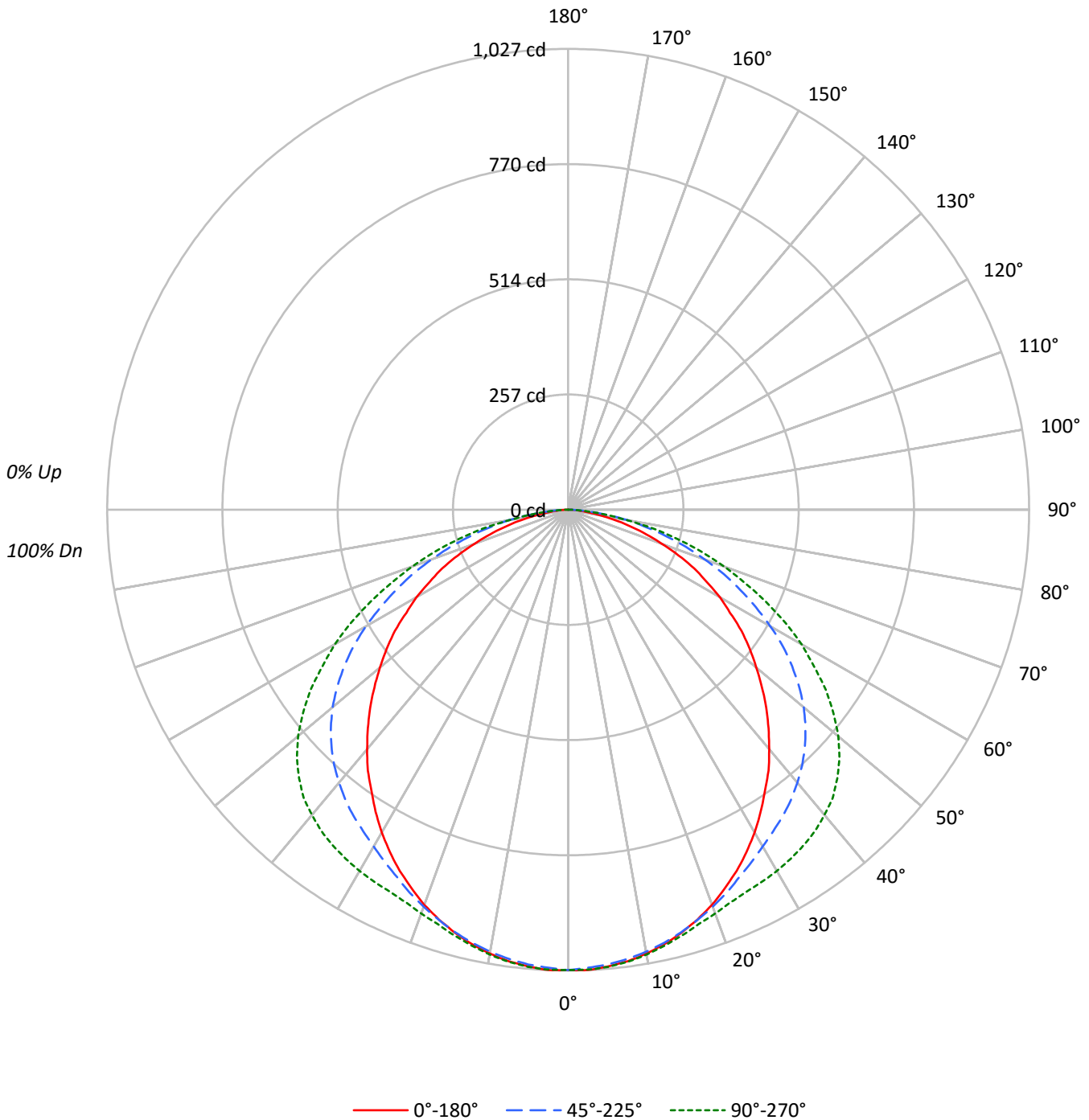
Lumens per Lamp: N/A
Luminaire Lumens: 3104.9 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.44
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	109	104	99	95	106	101	97	94	97	94	91	93	91	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	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1380	1380	1380
5°	1380	1374	1381
10°	1372	1367	1375
15°	1359	1358	1368
20°	1342	1348	1371
25°	1318	1341	1395
30°	1290	1347	1444
35°	1255	1369	1501
40°	1224	1395	1560
45°	1188	1419	1613
50°	1145	1434	1644
55°	1106	1429	1644
60°	1050	1400	1616
65°	987	1347	1548
70°	875	1269	1450
75°	739	1161	1305
80°	571	1035	1002
85°	395	710	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	3.1
10°-20°	275.9	8.9
20°-30°	420.0	13.5
30°-40°	523.7	16.9
40°-50°	570.2	18.4
50°-60°	533.2	17.2
60°-70°	406.6	13.1
70°-80°	225.5	7.3
80°-90°	52.9	1.7
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°	792.7	25.5
0°-40°	1316.4	42.4
0°-60°	2419.9	77.9
0°-90°	3104.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3104.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1022	1022	1017	1022	1023	97
15°	976	976	975	981	982	275
25°	888	891	903	929	939	409
35°	764	781	834	892	914	479
45°	624	657	746	822	848	481
55°	471	517	609	680	701	420
65°	310	350	423	473	486	304
75°	142	181	223	249	251	153
85°	26	44	46	46	44	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1025.9	1025.9	1025.9	1025.9	1025.9
2.5°	1027.0	1024.9	1021.6	1024.9	1025.9
5°	1021.6	1021.6	1017.4	1021.6	1022.7
7.5°	1015.2	1014.2	1009.9	1015.2	1016.3
10°	1004.5	1003.5	1000.3	1004.5	1006.7
12.5°	991.7	990.7	988.5	994.9	994.9
15°	975.7	975.7	974.6	981.0	982.1
17.5°	957.5	957.5	958.6	966.1	968.2
20°	937.2	937.2	941.5	953.3	957.5
22.5°	912.6	914.8	923.3	939.4	946.8
25°	888.1	891.3	903.0	928.7	939.4
27.5°	860.3	865.6	884.9	920.1	935.1
30°	830.4	837.8	866.7	912.6	929.7
32.5°	798.3	809.0	849.6	903.0	922.3
35°	764.1	781.2	833.6	892.3	913.7
37.5°	733.1	750.2	815.4	879.5	903.0
40°	696.8	718.1	794.0	864.6	888.1
42.5°	660.4	689.3	771.6	845.3	872.0
45°	624.1	657.2	745.9	821.8	847.5
47.5°	585.6	623.0	717.1	794.0	819.7
50°	547.2	591.0	685.0	762.0	785.5
52.5°	509.8	555.7	648.7	723.5	744.9
55°	471.3	517.2	609.1	679.7	701.0
57.5°	427.5	482.0	567.5	631.6	648.7
60°	390.1	437.1	520.4	580.3	600.6
62.5°	347.3	396.5	471.3	530.1	545.0
65°	309.9	350.5	423.2	473.4	486.2
67.5°	266.1	307.8	375.1	416.8	426.4
70°	222.3	264.0	322.7	362.3	368.7
72.5°	182.7	222.3	273.6	305.6	311.0
75°	142.1	180.6	223.4	249.0	251.1
77.5°	107.9	142.1	176.3	194.5	195.6
80°	73.7	103.7	133.6	135.7	129.3
82.5°	47.0	71.6	86.6	83.4	83.4
85°	25.6	43.8	46.0	46.0	43.8
87.5°	10.7	17.1	17.1	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)