

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: P220301

Luminaire Tested: **Z3-WN-2L40-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220301
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-2L40-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: 4026.2 lumens
Efficiency: N/A
Efficacy: 132.0 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

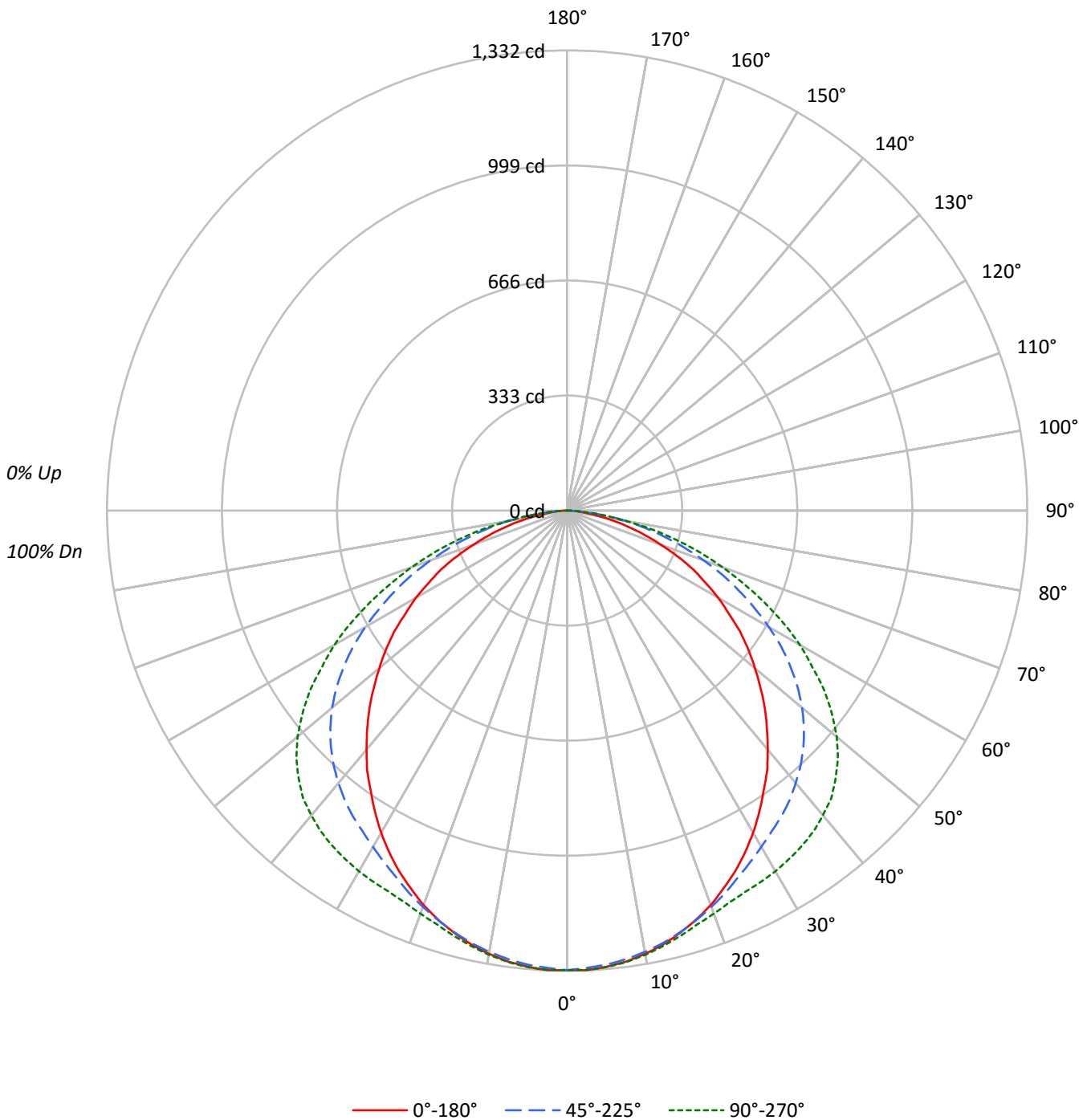
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1790	1790	1790
5°	1789	1782	1791
10°	1780	1772	1783
15°	1762	1760	1774
20°	1740	1748	1778
25°	1710	1738	1808
30°	1673	1746	1873
35°	1627	1775	1946
40°	1587	1808	2023
45°	1540	1841	2091
50°	1485	1859	2132
55°	1434	1853	2133
60°	1361	1816	2096
65°	1280	1747	2007
70°	1134	1646	1881
75°	958	1506	1693
80°	741	1342	1299
85°	514	920	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.1
10°-20°	357.7	8.9
20°-30°	544.6	13.5
30°-40°	679.1	16.9
40°-50°	739.4	18.4
50°-60°	691.4	17.2
60°-70°	527.2	13.1
70°-80°	292.4	7.3
80°-90°	68.6	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°	1027.9	25.5
0°-40°	1707.1	42.4
0°-60°	3137.9	77.9
0°-90°	4026.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4026.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1330	1330	1330	1330	1330	
5°	1325	1325	1319	1325	1326	126
15°	1265	1265	1264	1272	1274	357
25°	1152	1156	1171	1204	1218	530
35°	991	1013	1081	1157	1185	621
45°	809	852	967	1066	1099	624
55°	611	671	790	881	909	544
65°	402	454	549	614	630	394
75°	184	234	290	323	326	198
85°	33	57	60	60	57	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1330.3	1330.3	1330.3	1330.3	1330.3
2.5°	1331.7	1328.9	1324.8	1328.9	1330.3
5°	1324.8	1324.8	1319.2	1324.8	1326.2
7.5°	1316.5	1315.1	1309.5	1316.5	1317.9
10°	1302.6	1301.2	1297.1	1302.6	1305.4
12.5°	1286.0	1284.6	1281.8	1290.1	1290.1
15°	1265.2	1265.2	1263.8	1272.1	1273.5
17.5°	1241.6	1241.6	1243.0	1252.7	1255.5
20°	1215.3	1215.3	1220.8	1236.1	1241.6
22.5°	1183.4	1186.2	1197.3	1218.1	1227.8
25°	1151.6	1155.7	1171.0	1204.2	1218.1
27.5°	1115.5	1122.5	1147.4	1193.1	1212.5
30°	1076.7	1086.4	1123.8	1183.4	1205.6
32.5°	1035.2	1049.0	1101.7	1171.0	1195.9
35°	990.8	1013.0	1080.9	1157.1	1184.8
37.5°	950.6	972.8	1057.3	1140.5	1171.0
40°	903.5	931.2	1029.6	1121.1	1151.6
42.5°	856.4	893.8	1000.5	1096.1	1130.8
45°	809.3	852.2	967.3	1065.6	1098.9
47.5°	759.4	807.9	929.8	1029.6	1062.9
50°	709.5	766.3	888.3	988.0	1018.5
52.5°	661.0	720.6	841.2	938.2	965.9
55°	611.1	670.7	789.9	881.3	909.1
57.5°	554.3	625.0	735.8	819.0	841.2
60°	505.8	566.8	674.9	752.5	778.8
62.5°	450.4	514.1	611.1	687.3	706.7
65°	401.9	454.5	548.8	613.9	630.5
67.5°	345.1	399.1	486.4	540.4	552.9
70°	288.2	342.3	418.5	469.8	478.1
72.5°	237.0	288.2	354.8	396.3	403.3
75°	184.3	234.2	289.6	322.9	325.7
77.5°	140.0	184.3	228.6	252.2	253.6
80°	95.6	134.4	173.2	176.0	167.7
82.5°	61.0	92.8	112.2	108.1	108.1
85°	33.3	56.8	59.6	59.6	56.8
87.5°	13.9	22.2	22.2	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)