

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: P220287

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35867)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-2L40-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

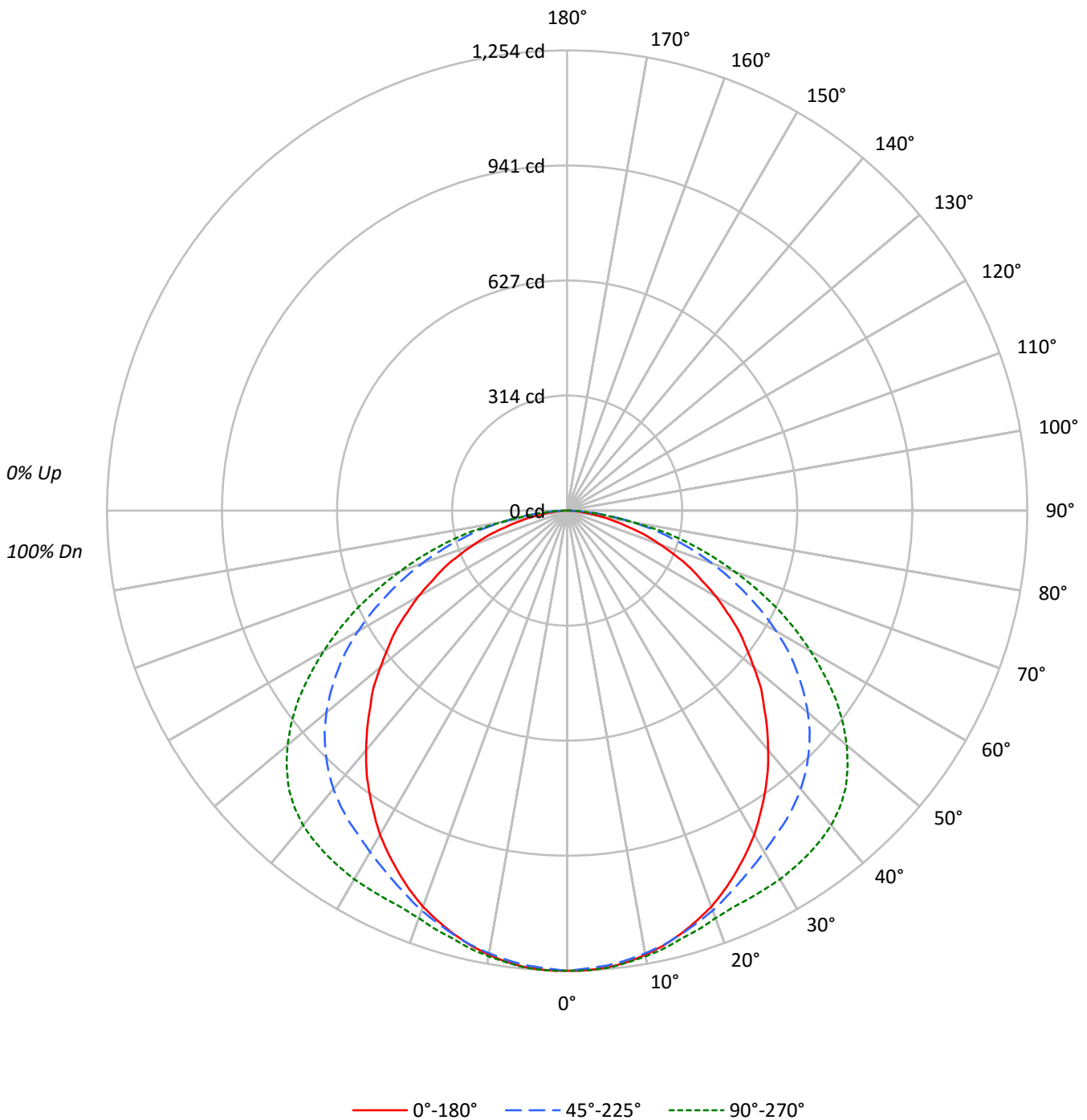
Lumens per Lamp: N/A
Luminaire Lumens: 3889.0 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1687	1687	1687
5°	1688	1681	1690
10°	1679	1674	1685
15°	1664	1666	1681
20°	1645	1661	1692
25°	1615	1656	1734
30°	1585	1669	1802
35°	1543	1700	1880
40°	1497	1740	1967
45°	1445	1772	2041
50°	1389	1793	2083
55°	1339	1794	2093
60°	1260	1771	2062
65°	1182	1716	2012
70°	1057	1652	1908
75°	900	1556	1779
80°	719	1395	1395
85°	514	1005	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.5	3.0
10°-20°	338.7	8.7
20°-30°	518.6	13.3
30°-40°	650.2	16.7
40°-50°	710.9	18.3
50°-60°	667.5	17.2
60°-70°	515.4	13.3
70°-80°	296.5	7.6
80°-90°	72.7	1.9
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°	975.8	25.1
0°-40°	1626.0	41.8
0°-60°	3004.4	77.3
0°-90°	3889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1250	1247	1244	1249	1251	119
15°	1194	1196	1196	1206	1207	337
25°	1088	1095	1116	1152	1168	501
35°	940	960	1035	1117	1145	587
45°	759	806	931	1036	1073	587
55°	571	636	765	863	892	507
65°	371	435	539	610	632	364
75°	173	231	299	335	342	187
85°	33	61	65	62	62	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1254.1	1254.1	1254.1	1254.1	1254.1
2.5°	1254.1	1252.7	1248.6	1252.7	1254.1
5°	1249.9	1247.2	1244.4	1248.6	1251.3
7.5°	1241.6	1240.2	1236.1	1243.0	1243.0
10°	1229.2	1227.8	1225.0	1231.9	1233.3
12.5°	1213.9	1212.5	1212.5	1220.8	1222.2
15°	1194.5	1195.9	1195.9	1205.6	1207.0
17.5°	1172.3	1172.3	1177.9	1190.4	1195.9
20°	1148.8	1150.2	1159.9	1175.1	1182.0
22.5°	1119.7	1125.2	1137.7	1162.6	1172.3
25°	1087.8	1094.7	1115.5	1151.6	1168.2
27.5°	1054.6	1064.3	1094.7	1143.2	1164.0
30°	1019.9	1032.4	1074.0	1136.3	1159.9
32.5°	979.7	996.4	1053.2	1126.6	1152.9
35°	939.5	960.3	1035.2	1116.9	1144.6
37.5°	898.0	921.5	1014.4	1101.7	1133.5
40°	852.2	885.5	990.8	1085.0	1119.7
42.5°	806.5	846.7	963.1	1064.3	1098.9
45°	759.4	806.5	931.2	1036.5	1072.6
47.5°	716.4	766.3	896.6	1001.9	1036.5
50°	663.8	726.1	856.4	961.7	995.0
52.5°	615.3	683.2	812.1	916.0	946.5
55°	570.9	636.1	764.9	863.3	892.4
57.5°	516.9	587.6	715.0	806.5	830.1
60°	468.4	537.7	658.2	742.8	766.3
62.5°	414.3	491.9	600.0	679.0	699.8
65°	371.4	435.1	539.1	609.7	631.9
67.5°	318.7	382.5	479.5	541.8	557.1
70°	268.8	329.8	419.9	472.5	485.0
72.5°	224.5	278.5	360.3	403.3	414.3
75°	173.2	231.4	299.3	335.4	342.3
77.5°	131.6	182.9	241.1	264.7	270.2
80°	92.8	140.0	180.1	189.8	180.1
82.5°	59.6	98.4	123.3	117.8	113.6
85°	33.3	61.0	65.1	62.4	62.4
87.5°	13.9	22.2	22.2	20.8	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)