

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: P220282

Luminaire Tested: **Z3-WD-2L35-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220282
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-2L35-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3713.8 lumens
Efficiency: N/A
Efficacy: 121.8 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

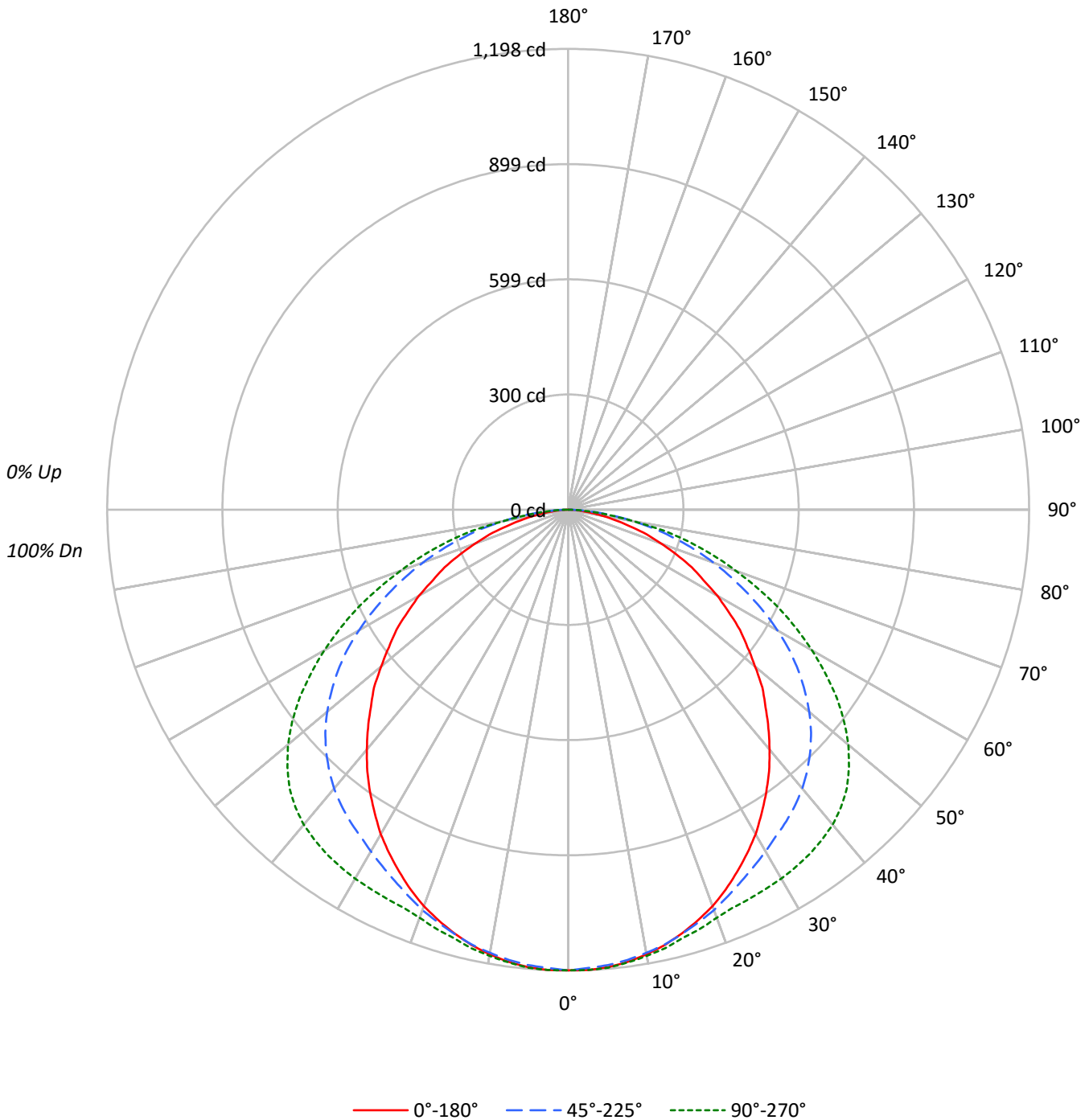
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1611	1611	1611
5°	1612	1605	1614
10°	1604	1598	1609
15°	1589	1591	1606
20°	1571	1586	1616
25°	1542	1582	1656
30°	1513	1593	1721
35°	1474	1624	1795
40°	1429	1662	1878
45°	1380	1692	1949
50°	1327	1712	1989
55°	1279	1714	1999
60°	1204	1692	1969
65°	1129	1639	1921
70°	1010	1578	1822
75°	860	1486	1699
80°	687	1333	1333
85°	491	960	919



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	3.0
10°-20°	323.4	8.7
20°-30°	495.2	13.3
30°-40°	620.9	16.7
40°-50°	678.9	18.3
50°-60°	637.4	17.2
60°-70°	492.2	13.3
70°-80°	283.1	7.6
80°-90°	69.4	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°	931.8	25.1
0°-40°	1552.7	41.8
0°-60°	2869.1	77.3
0°-90°	3713.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3713.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1194	1191	1188	1192	1195	113
15°	1141	1142	1142	1151	1153	322
25°	1039	1045	1065	1100	1116	479
35°	897	917	988	1067	1093	561
45°	725	770	889	990	1024	560
55°	545	607	730	824	852	484
65°	355	416	515	582	603	348
75°	165	221	286	320	327	179
85°	32	58	62	60	60	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.6	1197.6	1197.6	1197.6	1197.6
2.5°	1197.6	1196.3	1192.3	1196.3	1197.6
5°	1193.6	1191.0	1188.3	1192.3	1195.0
7.5°	1185.7	1184.4	1180.4	1187.0	1187.0
10°	1173.8	1172.5	1169.8	1176.4	1177.8
12.5°	1159.2	1157.9	1157.9	1165.8	1167.2
15°	1140.7	1142.0	1142.0	1151.3	1152.6
17.5°	1119.5	1119.5	1124.8	1136.7	1142.0
20°	1097.0	1098.4	1107.6	1122.2	1128.8
22.5°	1069.2	1074.5	1086.4	1110.3	1119.5
25°	1038.8	1045.4	1065.3	1099.7	1115.6
27.5°	1007.0	1016.3	1045.4	1091.7	1111.6
30°	974.0	985.9	1025.6	1085.1	1107.6
32.5°	935.6	951.5	1005.7	1075.9	1101.0
35°	897.2	917.1	988.5	1066.6	1093.1
37.5°	857.5	880.0	968.7	1052.0	1082.5
40°	813.8	845.6	946.2	1036.2	1069.2
42.5°	770.2	808.5	919.7	1016.3	1049.4
45°	725.2	770.2	889.3	989.8	1024.3
47.5°	684.2	731.8	856.2	956.8	989.8
50°	633.9	693.4	817.8	918.4	950.1
52.5°	587.6	652.4	775.5	874.7	903.8
55°	545.2	607.4	730.5	824.4	852.2
57.5°	493.6	561.1	682.8	770.2	792.7
60°	447.3	513.4	628.6	709.3	731.8
62.5°	395.7	469.8	573.0	648.4	668.3
65°	354.7	415.5	514.8	582.3	603.4
67.5°	304.4	365.2	457.9	517.4	532.0
70°	256.7	315.0	401.0	451.3	463.2
72.5°	214.4	266.0	344.1	385.1	395.7
75°	165.4	221.0	285.8	320.2	326.9
77.5°	125.7	174.7	230.3	252.8	258.0
80°	88.7	133.7	172.0	181.3	172.0
82.5°	56.9	94.0	117.8	112.5	108.5
85°	31.8	58.2	62.2	59.5	59.5
87.5°	13.2	21.2	21.2	19.8	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)