

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: P220268

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35866)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WG-2L35-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & RECTANGULAR PERF INLAY
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3730.1 lumens
Efficiency: N/A
Efficacy: 122.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.44 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

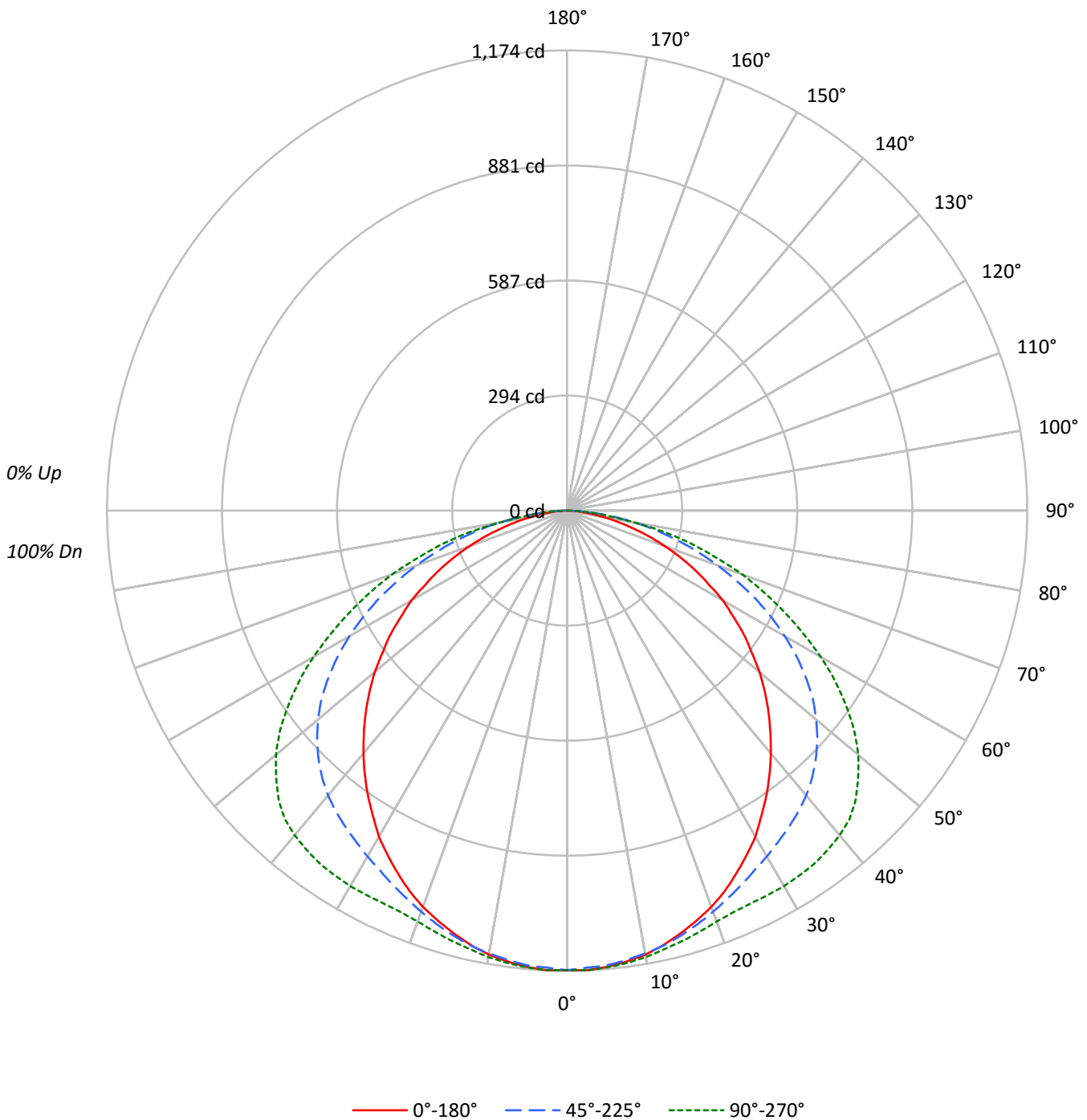
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	97	94	90	93	90	88	89	87	85	83
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	36	30	57	44	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1578	1578	1578
5°	1578	1573	1580
10°	1571	1567	1580
15°	1556	1563	1583
20°	1541	1559	1597
25°	1517	1564	1642
30°	1493	1583	1719
35°	1456	1619	1806
40°	1420	1666	1899
45°	1382	1707	1982
50°	1341	1737	2030
55°	1291	1745	2039
60°	1236	1727	2012
65°	1150	1681	1942
70°	1041	1609	1864
75°	887	1500	1713
80°	717	1354	1323
85°	491	960	940



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	3.0
10°-20°	317.8	8.5
20°-30°	489.4	13.1
30°-40°	619.6	16.6
40°-50°	685.0	18.4
50°-60°	648.9	17.4
60°-70°	502.6	13.5
70°-80°	286.4	7.7
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°	918.1	24.6
0°-40°	1537.8	41.2
0°-60°	2871.6	77.0
0°-90°	3730.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3730.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1168	1167	1164	1168	1170	111
15°	1117	1120	1122	1133	1137	315
25°	1022	1030	1053	1092	1106	471
35°	887	909	986	1069	1100	554
45°	726	773	897	1003	1042	560
55°	550	617	744	839	869	491
65°	361	425	528	596	610	357
75°	171	225	288	320	330	184
85°	32	58	62	61	61	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1172.5	1172.5	1172.5	1172.5	1172.5
2.5°	1173.8	1171.1	1167.2	1172.5	1173.8
5°	1168.5	1167.2	1164.5	1168.5	1169.8
7.5°	1160.6	1159.2	1156.6	1163.2	1164.5
10°	1150.0	1150.0	1147.3	1153.9	1156.6
12.5°	1135.4	1136.7	1136.7	1143.3	1146.0
15°	1116.9	1119.5	1122.2	1132.8	1136.7
17.5°	1097.0	1101.0	1106.3	1119.5	1126.1
20°	1075.9	1078.5	1089.1	1108.9	1115.6
22.5°	1050.7	1054.7	1070.6	1098.4	1108.9
25°	1021.6	1029.5	1053.4	1091.7	1106.3
27.5°	991.2	1000.4	1034.8	1085.1	1106.3
30°	960.7	971.3	1019.0	1081.2	1106.3
32.5°	922.4	940.9	1001.8	1077.2	1103.6
35°	886.6	909.1	985.9	1069.2	1099.7
37.5°	848.2	876.0	968.7	1058.7	1091.7
40°	808.5	843.0	948.8	1045.4	1081.2
42.5°	767.5	808.5	925.0	1028.2	1066.6
45°	726.5	772.8	897.2	1003.1	1041.5
47.5°	684.2	735.8	865.5	972.6	1007.0
50°	640.5	697.4	829.7	935.6	970.0
52.5°	592.8	659.0	790.0	890.6	923.7
55°	550.5	616.7	743.7	839.0	869.4
57.5°	501.5	575.6	694.7	786.1	811.2
60°	459.2	524.0	641.8	725.2	747.7
62.5°	406.3	480.4	586.2	661.7	678.9
65°	361.3	424.8	528.0	595.5	610.1
67.5°	312.3	374.5	467.1	526.7	542.6
70°	264.7	321.6	408.9	456.5	473.7
72.5°	218.3	272.6	348.0	389.1	397.0
75°	170.7	225.0	288.5	320.2	329.5
77.5°	131.0	176.0	231.6	256.7	255.4
80°	92.6	132.3	174.7	178.6	170.7
82.5°	59.5	94.0	117.8	108.5	108.5
85°	31.8	58.2	62.2	60.9	60.9
87.5°	11.9	21.2	21.2	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)