

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: P220168

Luminaire Tested: **Z3-WD-5L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35859)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-5L35-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3641.3 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.4 / 1.45
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

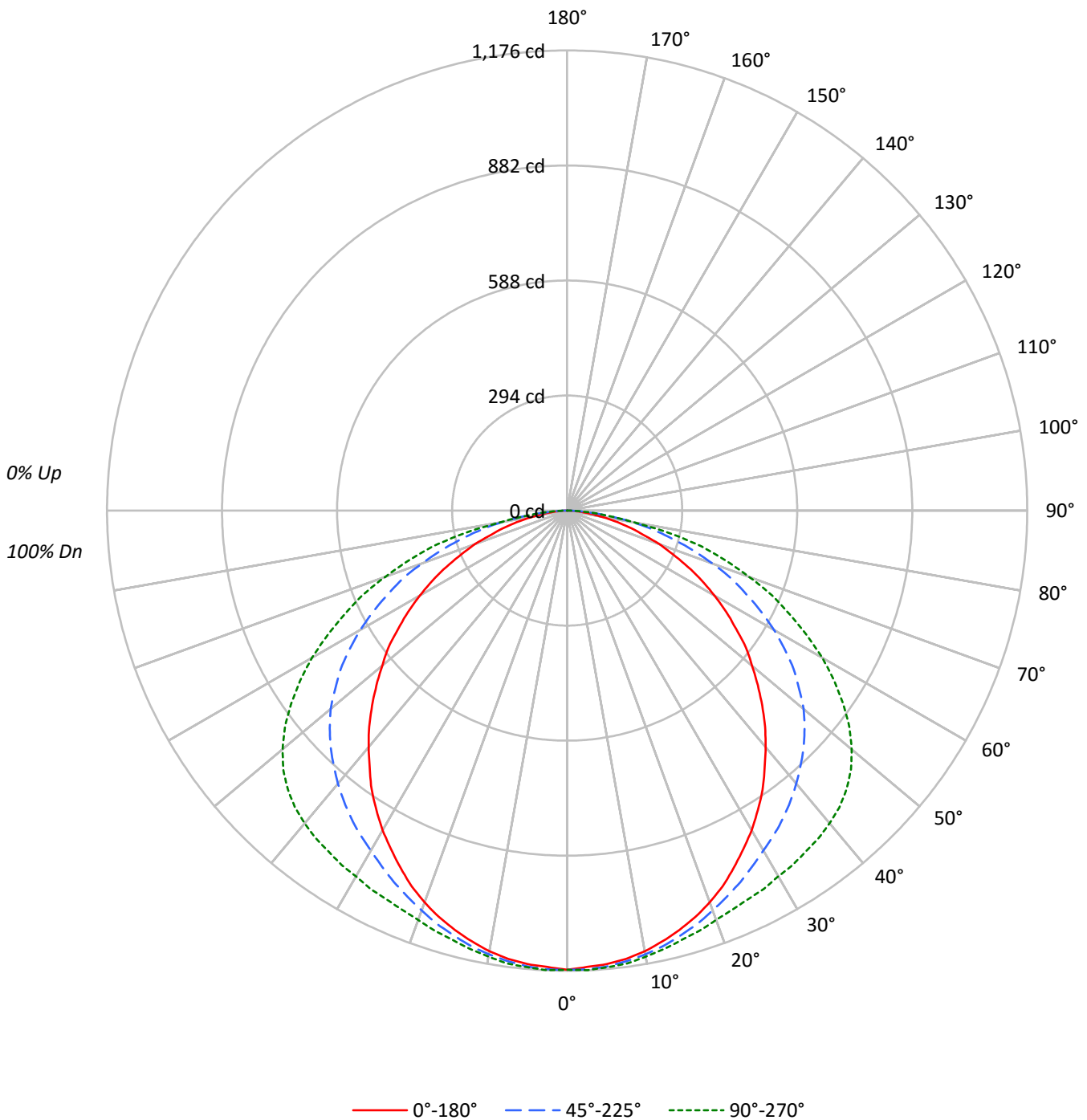
Input Watts (W): 35.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	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	53	65	58	52	63	56	51	61	55	50	48
5	75	61	52	45	72	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	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	27	54	41	33	27	40	32	27	39	32	27	38	31	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°	3158	3158	3158
5°	3143	3159	3165
10°	3125	3146	3163
15°	3091	3130	3163
20°	3051	3114	3188
25°	2991	3110	3252
30°	2931	3118	3354
35°	2862	3158	3493
40°	2772	3201	3665
45°	2683	3254	3841
50°	2582	3303	3974
55°	2471	3316	4040
60°	2339	3287	4053
65°	2167	3214	3991
70°	1969	3104	3891
75°	1707	2895	3707
80°	1334	2607	2700
85°	988	1794	1917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	3.0
10°-20°	317.2	8.7
20°-30°	484.5	13.3
30°-40°	603.4	16.6
40°-50°	659.7	18.1
50°-60°	625.7	17.2
60°-70°	490.1	13.5
70°-80°	283.4	7.8
80°-90°	66.4	1.8
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°	912.7	25.1
0°-40°	1516.0	41.6
0°-60°	2801.4	76.9
0°-90°	3641.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3641.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1164	1166	1170	1172	1172	110
15°	1109	1113	1124	1134	1136	313
25°	1007	1017	1047	1081	1095	464
35°	871	891	961	1035	1063	544
45°	705	747	855	965	1009	544
55°	527	591	707	819	861	472
65°	340	400	505	595	627	337
75°	164	208	278	332	356	174
85°	32	46	58	62	62	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.5	1173.5	1173.5	1173.5	1173.5
2.5°	1167.5	1169.5	1173.5	1175.5	1175.5
5°	1163.5	1165.5	1169.5	1171.5	1171.5
7.5°	1155.5	1157.5	1161.5	1165.5	1167.5
10°	1143.5	1145.5	1151.5	1157.5	1157.5
12.5°	1127.5	1131.5	1139.5	1145.5	1147.5
15°	1109.4	1113.4	1123.5	1133.5	1135.5
17.5°	1089.4	1095.4	1107.4	1119.4	1125.5
20°	1065.4	1069.4	1087.4	1105.4	1113.4
22.5°	1039.3	1045.4	1067.4	1093.4	1103.4
25°	1007.3	1017.3	1047.4	1081.4	1095.4
27.5°	975.3	989.3	1025.3	1071.4	1089.4
30°	943.2	957.2	1003.3	1059.4	1079.4
32.5°	907.2	925.2	983.3	1047.4	1073.4
35°	871.1	891.2	961.2	1035.3	1063.4
37.5°	829.1	855.1	937.2	1021.3	1055.4
40°	789.0	817.1	911.2	1005.3	1043.3
42.5°	749.0	781.0	883.1	987.3	1029.3
45°	704.9	747.0	855.1	965.2	1009.3
47.5°	660.9	708.9	823.1	939.2	983.3
50°	616.8	666.9	789.0	907.2	949.2
52.5°	576.7	626.8	747.0	865.1	909.2
55°	526.7	590.8	706.9	819.1	861.1
57.5°	482.6	540.7	658.9	769.0	809.0
60°	434.6	492.6	610.8	714.9	753.0
62.5°	388.5	444.6	558.7	656.8	690.9
65°	340.4	400.5	504.7	594.8	626.8
67.5°	292.4	348.5	454.6	532.7	566.7
70°	250.3	302.4	394.5	466.6	494.6
72.5°	202.3	252.3	336.4	400.5	424.5
75°	164.2	208.3	278.4	332.4	356.5
77.5°	124.2	166.2	224.3	260.3	270.3
80°	86.1	122.2	168.2	182.2	174.2
82.5°	56.1	84.1	108.1	112.1	110.1
85°	32.0	46.1	58.1	62.1	62.1
87.5°	14.0	18.0	20.0	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)