

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: P220184

Luminaire Tested: **Z3-WN-4L35-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35860)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-4L35-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3447.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

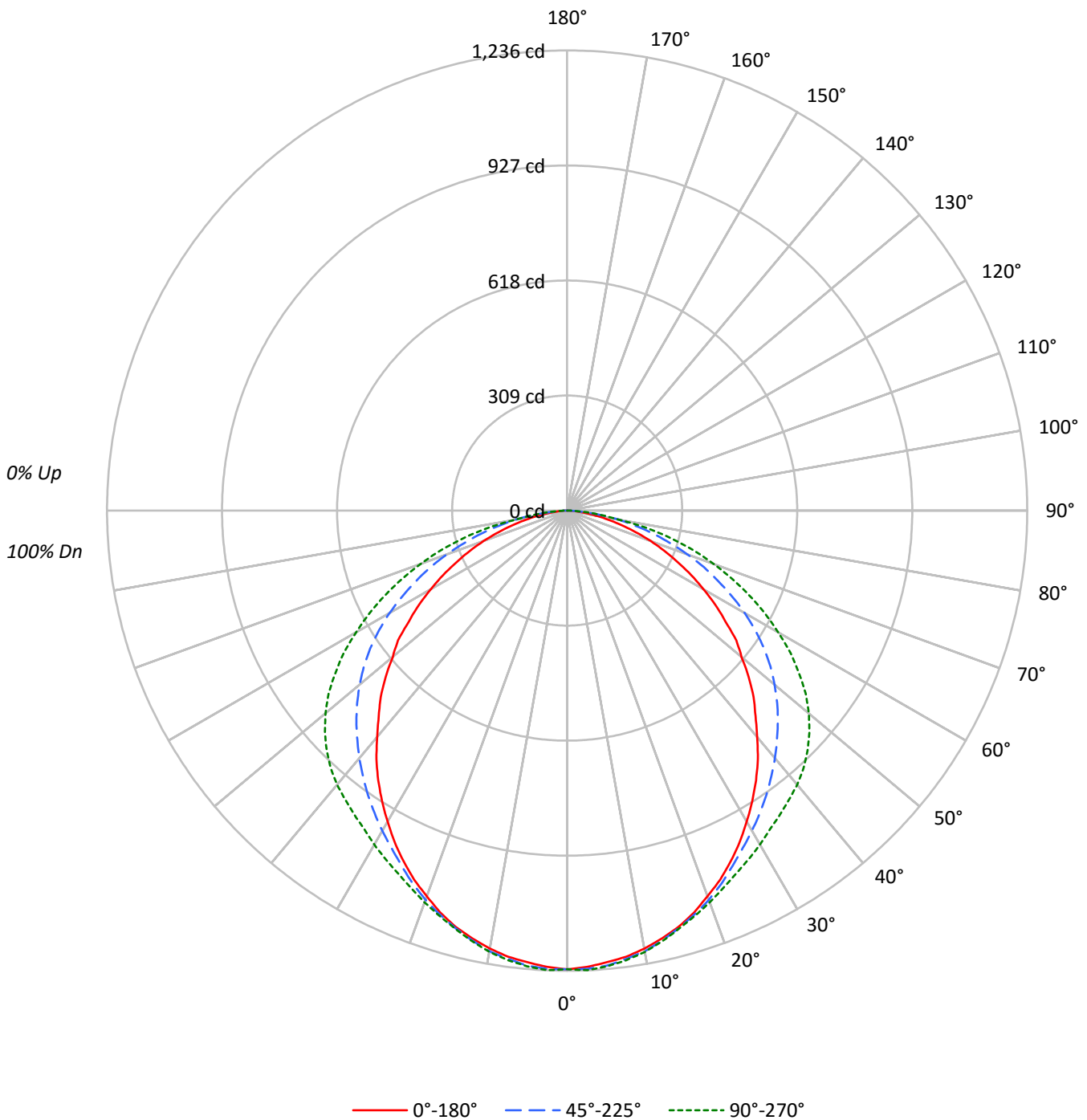
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3316	3316	3316
5°	3290	3314	3319
10°	3265	3284	3289
15°	3224	3234	3239
20°	3156	3186	3207
25°	3087	3124	3192
30°	2998	3086	3219
35°	2905	3064	3275
40°	2787	3051	3376
45°	2694	3047	3475
50°	2560	3046	3546
55°	2434	3028	3564
60°	2274	2965	3522
65°	2089	2850	3440
70°	1880	2707	3297
75°	1576	2484	3021
80°	1216	2183	2210
85°	880	1485	1596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	3.4
10°-20°	327.2	9.5
20°-30°	486.8	14.1
30°-40°	586.2	17.0
40°-50°	620.8	18.0
50°-60°	574.0	16.7
60°-70°	437.2	12.7
70°-80°	243.3	7.1
80°-90°	55.4	1.6
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°	930.1	27.0
0°-40°	1516.3	44.0
0°-60°	2711.2	78.7
0°-90°	3447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1218	1221	1227	1229	1229	116
15°	1157	1159	1161	1163	1163	326
25°	1040	1041	1052	1066	1075	478
35°	884	893	933	979	997	552
45°	708	729	801	881	913	544
55°	519	562	646	729	760	465
65°	328	371	448	515	540	326
75°	152	185	239	278	291	162
85°	28	39	48	52	52	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1232.1	1232.1	1232.1	1232.1	1232.1
2.5°	1226.8	1228.6	1232.1	1235.7	1235.7
5°	1217.9	1221.4	1226.8	1228.6	1228.6
7.5°	1208.9	1210.7	1214.3	1217.9	1217.9
10°	1194.7	1196.5	1201.8	1203.6	1203.6
12.5°	1176.9	1178.6	1182.2	1184.0	1184.0
15°	1157.2	1159.0	1160.8	1162.6	1162.6
17.5°	1132.3	1134.1	1137.6	1141.2	1141.2
20°	1102.0	1107.3	1112.7	1116.2	1119.8
22.5°	1073.4	1075.2	1084.1	1093.0	1096.6
25°	1039.6	1041.3	1052.0	1066.3	1075.2
27.5°	1003.9	1009.2	1021.7	1046.7	1055.6
30°	964.7	971.8	993.2	1023.5	1036.0
32.5°	925.4	932.6	962.9	1000.3	1014.6
35°	884.4	893.3	932.6	978.9	996.8
37.5°	841.6	852.3	900.5	955.7	978.9
40°	793.5	811.3	868.4	932.6	961.1
42.5°	748.9	770.3	834.5	907.6	939.7
45°	707.9	729.3	800.6	880.9	913.0
47.5°	661.5	688.3	765.0	850.5	882.6
50°	611.6	645.5	727.5	814.9	847.0
52.5°	572.4	602.7	688.3	775.7	807.7
55°	518.9	561.7	645.5	729.3	759.6
57.5°	472.5	511.8	599.1	681.1	711.5
60°	422.6	463.6	551.0	627.7	654.4
62.5°	376.2	415.5	499.3	574.2	599.1
65°	328.1	370.9	447.6	515.3	540.3
67.5°	281.7	322.7	397.6	460.0	479.7
70°	238.9	274.6	344.1	395.8	419.0
72.5°	192.6	228.2	288.9	337.0	356.6
75°	151.6	185.4	238.9	278.2	290.6
77.5°	112.3	144.4	187.2	217.5	222.9
80°	78.5	105.2	140.9	146.2	142.6
82.5°	49.9	69.5	89.2	90.9	90.9
85°	28.5	39.2	48.1	51.7	51.7
87.5°	10.7	14.3	17.8	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)