

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: P220133

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35857)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-4L35-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (84) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3476.2 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

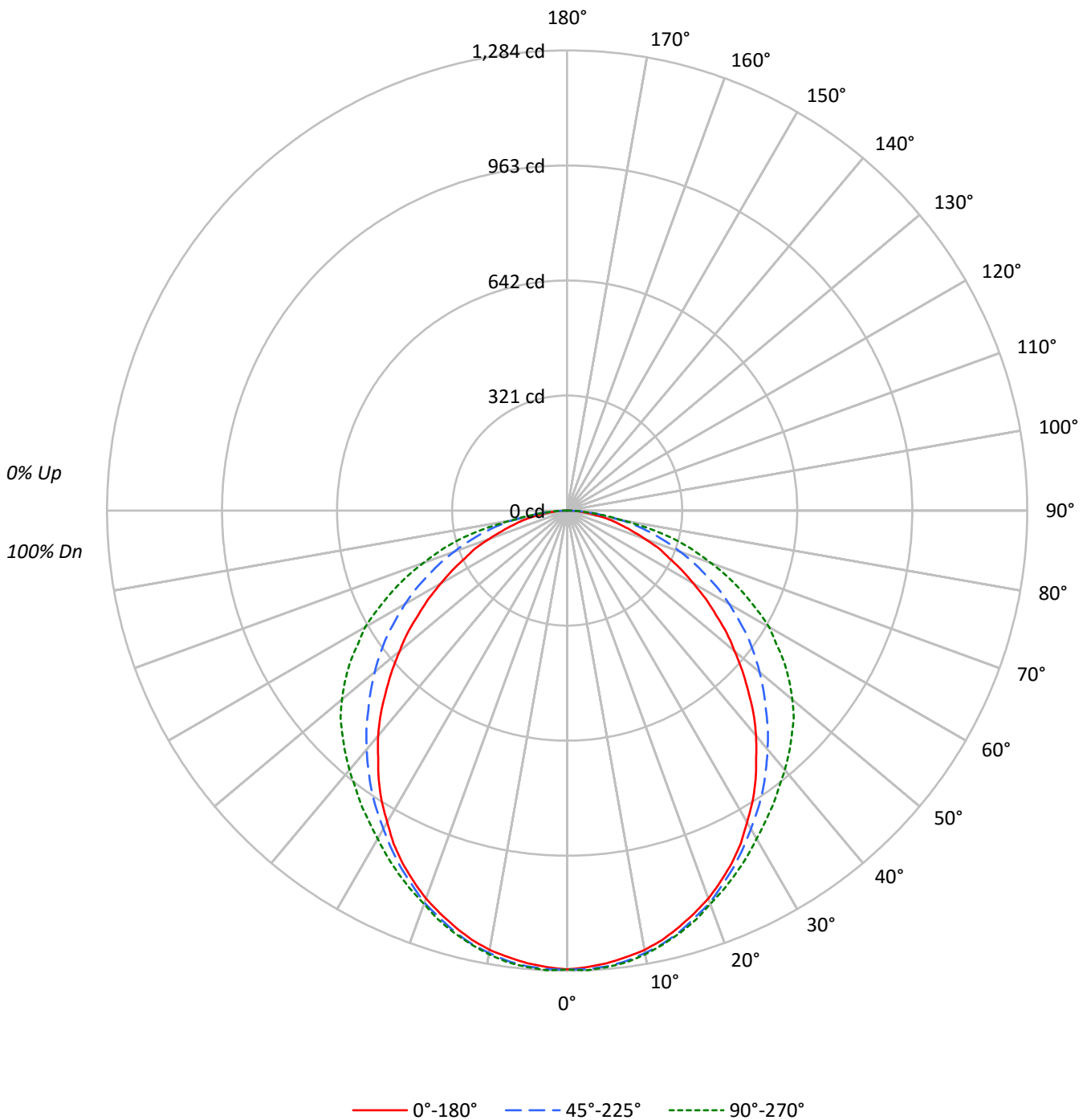
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59					59			
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50					50			
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43					43			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38					38			
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34					34			
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30					30			
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3445	3445	3445
5°	3425	3449	3454
10°	3401	3425	3435
15°	3353	3388	3398
20°	3299	3334	3344
25°	3224	3261	3314
30°	3119	3186	3286
35°	3011	3128	3292
40°	2881	3057	3320
45°	2721	2986	3373
50°	2553	2934	3434
55°	2376	2886	3472
60°	2188	2812	3503
65°	1998	2725	3440
70°	1824	2637	3353
75°	1631	2540	3244
80°	1437	2376	2431
85°	1266	1871	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	3.5
10°-20°	342.0	9.8
20°-30°	506.6	14.6
30°-40°	597.2	17.2
40°-50°	612.4	17.6
50°-60°	553.6	15.9
60°-70°	425.7	12.2
70°-80°	252.3	7.3
80°-90°	65.6	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°	969.5	27.9
0°-40°	1566.7	45.1
0°-60°	2732.7	78.6
0°-90°	3476.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3476.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1280	1280	1280	1280	1280	
5°	1268	1271	1277	1278	1278	120
15°	1204	1207	1216	1220	1220	339
25°	1086	1090	1098	1111	1116	499
35°	916	922	952	986	1002	572
45°	715	729	785	856	886	552
55°	506	542	615	701	740	455
65°	314	353	428	510	540	315
75°	157	187	244	296	312	168
85°	41	50	61	64	59	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1280.3	1280.3	1280.3	1280.3	1280.3
2.5°	1274.9	1276.7	1280.3	1283.8	1283.8
5°	1267.8	1271.4	1276.7	1278.5	1278.5
7.5°	1257.1	1260.7	1267.8	1269.6	1271.4
10°	1244.6	1246.4	1253.5	1257.1	1257.1
12.5°	1226.8	1230.3	1237.5	1241.0	1239.3
15°	1203.6	1207.2	1216.1	1219.6	1219.6
17.5°	1178.6	1182.2	1189.3	1194.7	1196.5
20°	1151.9	1153.7	1164.4	1167.9	1167.9
22.5°	1119.8	1125.1	1130.5	1141.2	1143.0
25°	1085.9	1089.5	1098.4	1110.9	1116.2
27.5°	1048.5	1050.2	1062.7	1082.3	1087.7
30°	1003.9	1011.0	1025.3	1050.2	1057.4
32.5°	962.9	968.2	989.6	1018.2	1028.9
35°	916.5	921.9	952.2	986.1	1002.1
37.5°	866.6	873.7	911.2	952.2	971.8
40°	820.2	829.1	870.2	921.9	945.0
42.5°	770.3	779.2	829.1	888.0	916.5
45°	715.0	729.3	784.6	855.9	886.2
47.5°	663.3	681.1	743.6	822.0	857.7
50°	609.8	634.8	700.8	786.3	820.2
52.5°	561.7	584.9	658.0	745.3	781.0
55°	506.4	542.1	615.2	700.8	740.0
57.5°	458.3	490.4	567.0	658.0	691.8
60°	406.5	442.2	522.4	609.8	650.8
62.5°	362.0	395.8	477.9	561.7	595.6
65°	313.8	353.1	427.9	510.0	540.3
67.5°	278.2	304.9	383.4	460.0	486.8
70°	231.8	263.9	335.2	404.8	426.2
72.5°	190.8	224.7	290.6	351.3	370.9
75°	156.9	187.2	244.3	296.0	312.0
77.5°	126.6	151.6	201.5	237.2	240.7
80°	92.7	114.1	153.3	162.3	156.9
82.5°	66.0	80.2	101.6	107.0	101.6
85°	41.0	49.9	60.6	64.2	58.8
87.5°	19.6	19.6	25.0	25.0	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)