

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: P220190

Luminaire Tested: **Z3-WN-4L40-LD5-UNV-22**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220190
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-4L40-LD5-UNV-22
Description: CLASS Z3 2X2 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (84) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3556.1 lumens
Efficiency: N/A
Efficacy: 116.6 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

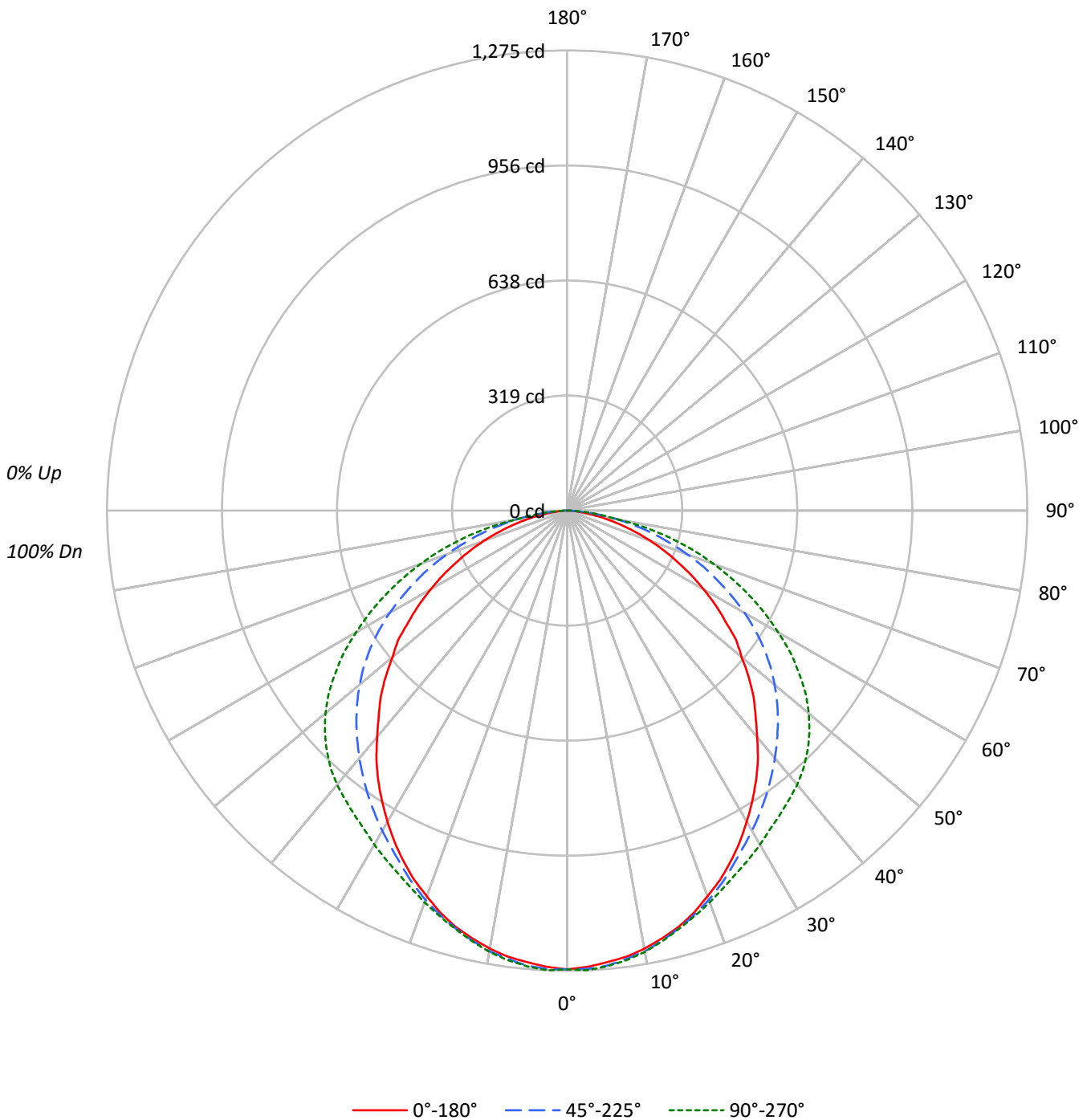
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3421	3421	3421
5°	3394	3419	3424
10°	3368	3388	3393
15°	3326	3336	3341
20°	3255	3287	3308
25°	3184	3222	3293
30°	3092	3184	3321
35°	2997	3161	3378
40°	2876	3147	3483
45°	2779	3143	3584
50°	2642	3142	3658
55°	2511	3124	3676
60°	2347	3059	3633
65°	2155	2940	3549
70°	1939	2793	3401
75°	1626	2563	3117
80°	1254	2252	2281
85°	908	1535	1646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.4
10°-20°	337.6	9.5
20°-30°	502.2	14.1
30°-40°	604.8	17.0
40°-50°	640.5	18.0
50°-60°	592.2	16.7
60°-70°	451.0	12.7
70°-80°	251.0	7.1
80°-90°	57.1	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°	959.5	27.0
0°-40°	1564.3	44.0
0°-60°	2796.9	78.7
0°-90°	3556.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3556.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1271	1271	1271	1271	1271	
5°	1256	1260	1266	1267	1267	119
15°	1194	1196	1198	1199	1199	336
25°	1072	1074	1085	1100	1109	493
35°	912	922	962	1010	1028	570
45°	730	752	826	909	942	561
55°	535	579	666	752	784	480
65°	338	383	462	532	557	336
75°	156	191	246	287	300	167
85°	29	40	50	53	53	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1271.1	1271.1	1271.1	1271.1	1271.1
2.5°	1265.6	1267.4	1271.1	1274.8	1274.8
5°	1256.4	1260.1	1265.6	1267.4	1267.4
7.5°	1247.2	1249.0	1252.7	1256.4	1256.4
10°	1232.5	1234.3	1239.8	1241.7	1241.7
12.5°	1214.1	1215.9	1219.6	1221.4	1221.4
15°	1193.8	1195.7	1197.5	1199.4	1199.4
17.5°	1168.1	1169.9	1173.6	1177.3	1177.3
20°	1136.8	1142.3	1147.9	1151.5	1155.2
22.5°	1107.4	1109.2	1118.4	1127.6	1131.3
25°	1072.4	1074.3	1085.3	1100.0	1109.2
27.5°	1035.6	1041.2	1054.0	1079.8	1089.0
30°	995.2	1002.5	1024.6	1055.9	1068.8
32.5°	954.7	962.1	993.3	1032.0	1046.7
35°	912.4	921.6	962.1	1009.9	1028.3
37.5°	868.2	879.3	929.0	986.0	1009.9
40°	818.6	837.0	895.8	962.1	991.5
42.5°	772.6	794.7	860.9	936.3	969.4
45°	730.3	752.4	825.9	908.7	941.8
47.5°	682.5	710.1	789.2	877.4	910.6
50°	631.0	665.9	750.5	840.7	873.8
52.5°	590.5	621.8	710.1	800.2	833.3
55°	535.3	579.4	665.9	752.4	783.6
57.5°	487.5	527.9	618.1	702.7	734.0
60°	436.0	478.3	568.4	647.5	675.1
62.5°	388.1	428.6	515.1	592.3	618.1
65°	338.5	382.6	461.7	531.6	557.4
67.5°	290.6	333.0	410.2	474.6	494.8
70°	246.5	283.3	355.0	408.4	432.3
72.5°	198.7	235.5	298.0	347.7	367.9
75°	156.4	191.3	246.5	287.0	299.8
77.5°	115.9	149.0	193.1	224.4	229.9
80°	80.9	108.5	145.3	150.8	147.2
82.5°	51.5	71.7	92.0	93.8	93.8
85°	29.4	40.5	49.7	53.3	53.3
87.5°	11.0	14.7	18.4	18.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)