

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: P220044

Luminaire Tested: **Z3-WN-3L30-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35876)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WN-3L30-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & NANO-PRISM INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3777.2 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

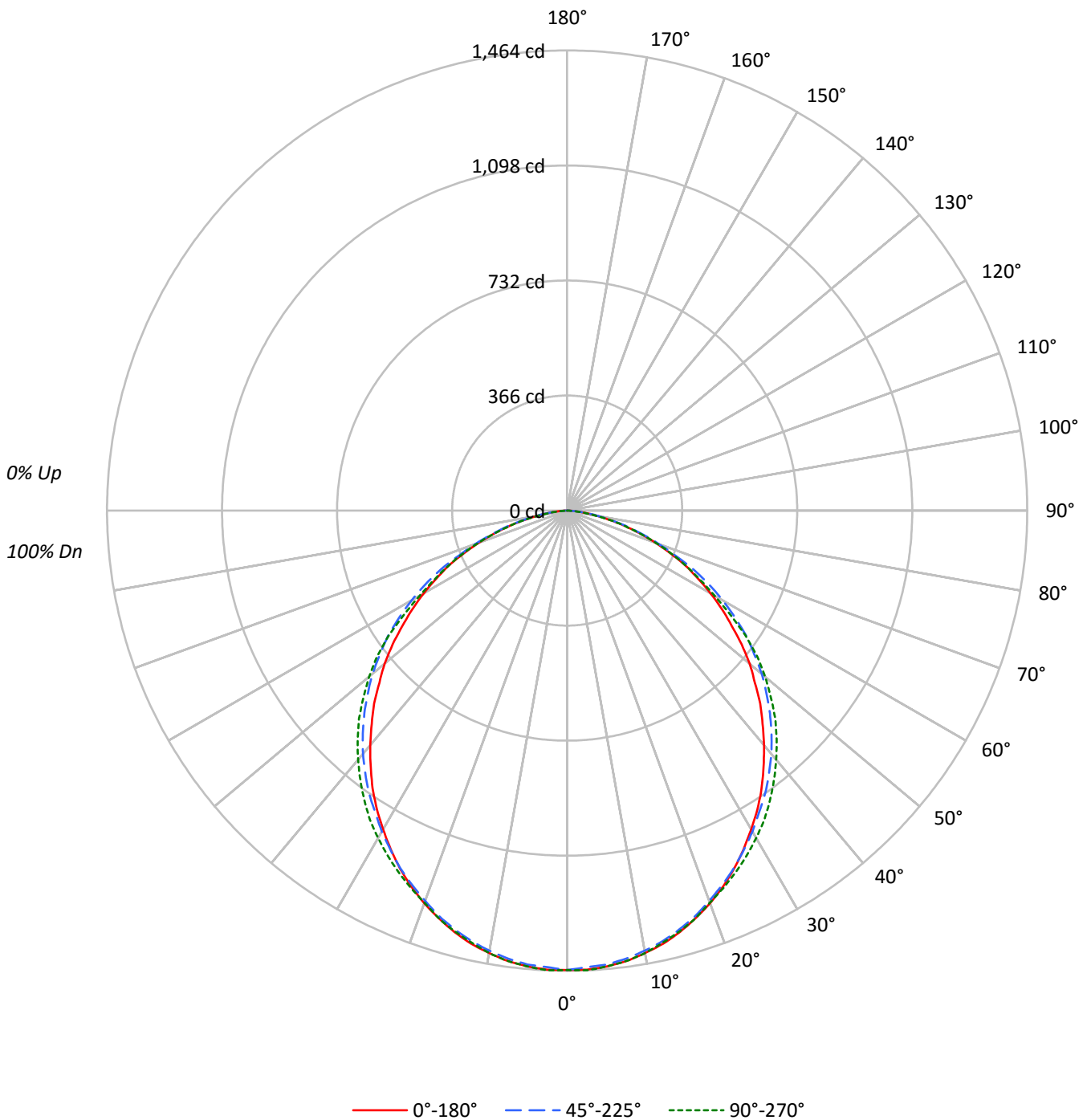
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3934	3934	3934
5°	3932	3916	3932
10°	3907	3885	3907
15°	3866	3843	3860
20°	3807	3784	3801
25°	3733	3727	3769
30°	3639	3663	3738
35°	3544	3610	3695
40°	3423	3550	3635
45°	3304	3472	3564
50°	3173	3383	3442
55°	3001	3264	3246
60°	2838	3076	2914
65°	2656	2821	2669
70°	2351	2430	2367
75°	1981	2085	1981
80°	1523	1585	1429
85°	929	929	806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.9	3.7
10°-20°	390.3	10.3
20°-30°	580.7	15.4
30°-40°	687.9	18.2
40°-50°	698.1	18.5
50°-60°	607.5	16.1
60°-70°	424.6	11.2
70°-80°	209.8	5.6
80°-90°	40.4	1.1
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°	1109.0	29.4
0°-40°	1796.8	47.6
0°-60°	3102.4	82.1
0°-90°	3777.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3777.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1456	1456	1450	1458	1456	138
15°	1388	1388	1380	1388	1386	391
25°	1257	1257	1255	1265	1269	578
35°	1079	1081	1099	1121	1125	674
45°	868	878	912	930	936	669
55°	640	668	696	698	692	573
65°	417	435	443	423	419	409
75°	190	204	200	190	190	203
85°	30	34	30	28	26	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1461.8	1461.8	1461.8	1461.8	1461.8
2.5°	1461.8	1461.8	1453.7	1461.8	1463.8
5°	1455.8	1455.8	1449.7	1457.8	1455.8
7.5°	1445.7	1443.7	1437.7	1443.7	1445.7
10°	1429.7	1427.7	1421.7	1429.7	1429.7
12.5°	1411.6	1409.6	1403.6	1409.6	1407.6
15°	1387.6	1387.6	1379.6	1387.6	1385.6
17.5°	1359.5	1359.5	1353.5	1357.5	1359.5
20°	1329.4	1329.4	1321.4	1331.4	1327.4
22.5°	1295.3	1295.3	1289.3	1299.3	1299.3
25°	1257.2	1257.2	1255.2	1265.3	1269.3
27.5°	1215.1	1217.1	1217.1	1233.2	1237.2
30°	1171.0	1173.0	1179.0	1199.1	1203.1
32.5°	1126.9	1128.9	1136.9	1161.0	1167.0
35°	1078.8	1080.8	1098.8	1120.9	1124.9
37.5°	1026.6	1032.7	1054.7	1076.8	1080.8
40°	974.5	980.5	1010.6	1028.7	1034.7
42.5°	920.4	932.4	962.5	980.5	986.5
45°	868.2	878.3	912.4	930.4	936.4
47.5°	810.1	824.1	860.2	878.3	878.3
50°	758.0	774.0	808.1	822.1	822.1
52.5°	699.8	721.9	749.9	766.0	762.0
55°	639.6	667.7	695.8	697.8	691.8
57.5°	583.5	609.6	633.6	631.6	613.6
60°	527.4	549.4	571.5	555.4	541.4
62.5°	469.2	493.3	509.3	483.2	477.2
65°	417.1	435.1	443.1	423.1	419.1
67.5°	354.9	377.0	371.0	364.9	360.9
70°	298.8	316.8	308.8	302.8	300.8
72.5°	242.6	260.7	252.7	248.6	242.6
75°	190.5	204.5	200.5	190.5	190.5
77.5°	140.4	152.4	146.4	142.4	140.4
80°	98.3	104.3	102.3	96.2	92.2
82.5°	58.1	66.2	62.2	58.1	56.1
85°	30.1	34.1	30.1	28.1	26.1
87.5°	10.0	10.0	8.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)