

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: P220040

Luminaire Tested: **Z3-WD-3L40-LD5-UNV-14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35875)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-3L40-LD5-UNV-14
Description: CLASS Z3 1X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3799.1 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

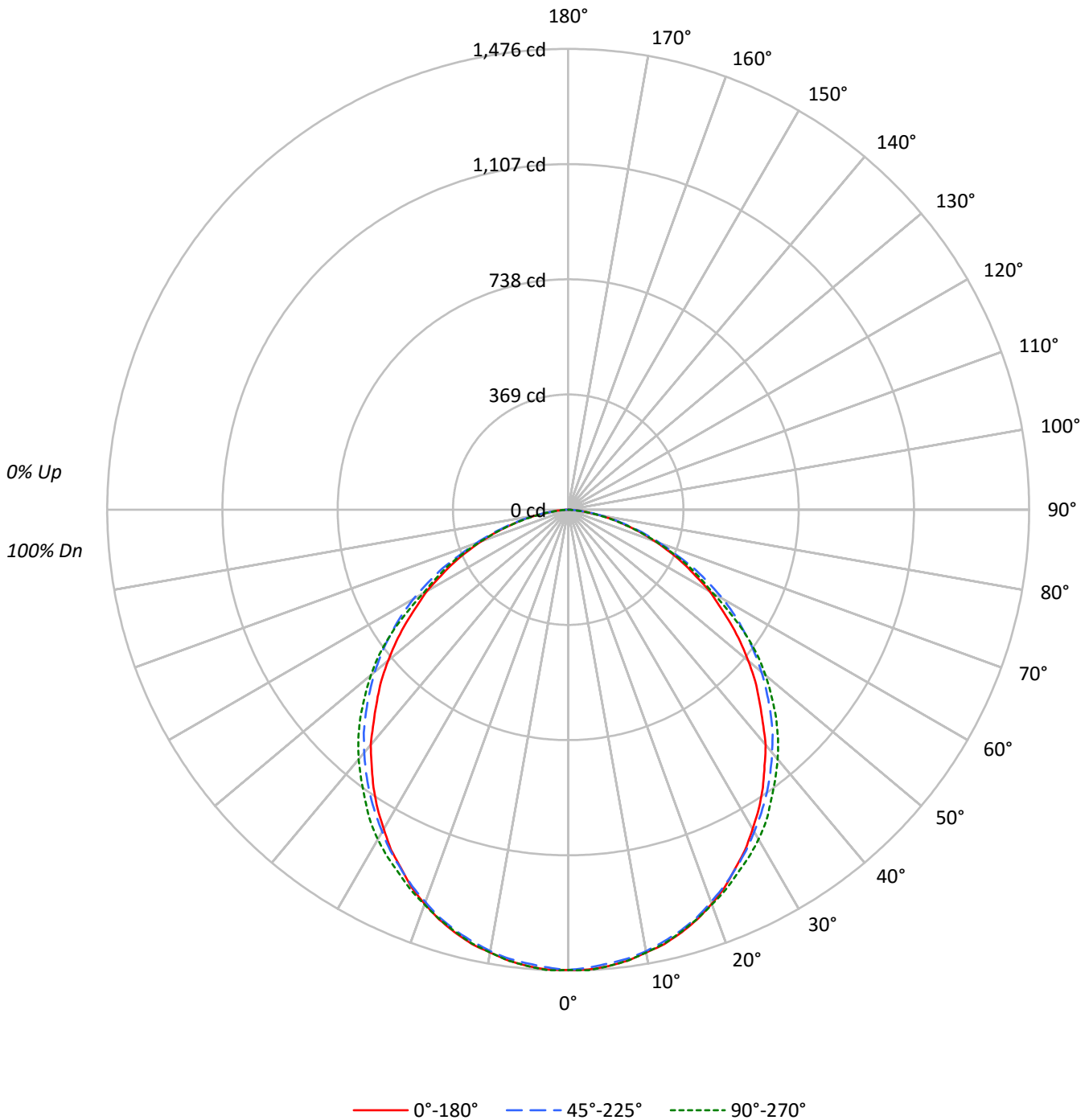
Input Watts (W): 33.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	39	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3967	3967	3967
5°	3965	3942	3965
10°	3935	3923	3935
15°	3904	3886	3898
20°	3848	3829	3854
25°	3760	3767	3811
30°	3669	3702	3789
35°	3569	3640	3724
40°	3455	3568	3666
45°	3295	3482	3580
50°	3149	3382	3454
55°	2976	3247	3247
60°	2814	3079	2883
65°	2592	2825	2688
70°	2327	2462	2360
75°	1983	2094	1983
80°	1561	1627	1528
85°	991	991	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	3.7
10°-20°	394.2	10.4
20°-30°	586.9	15.4
30°-40°	693.8	18.3
40°-50°	700.7	18.4
50°-60°	605.7	15.9
60°-70°	422.8	11.1
70°-80°	213.3	5.6
80°-90°	42.5	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°	1120.3	29.5
0°-40°	1814.1	47.8
0°-60°	3120.5	82.1
0°-90°	3799.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3799.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1468	1466	1459	1468	1468	139
15°	1401	1399	1395	1399	1399	395
25°	1266	1269	1269	1281	1284	584
35°	1086	1091	1108	1129	1134	679
45°	866	879	915	939	941	669
55°	634	662	692	701	692	568
65°	407	433	444	420	422	402
75°	191	210	201	195	191	205
85°	32	36	32	28	26	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1474.3	1474.3	1474.3	1474.3	1474.3
2.5°	1474.3	1474.3	1467.9	1476.4	1476.4
5°	1467.9	1465.7	1459.3	1467.9	1467.9
7.5°	1457.1	1455.0	1450.7	1457.1	1457.1
10°	1440.0	1440.0	1435.7	1442.1	1440.0
12.5°	1425.0	1422.9	1416.4	1422.9	1422.9
15°	1401.4	1399.3	1395.0	1399.3	1399.3
17.5°	1375.7	1371.4	1369.3	1373.6	1373.6
20°	1343.6	1341.4	1337.1	1345.7	1345.7
22.5°	1309.3	1305.0	1305.0	1313.6	1317.9
25°	1266.4	1268.6	1268.6	1281.4	1283.6
27.5°	1227.9	1227.9	1232.1	1247.1	1253.6
30°	1180.7	1185.0	1191.4	1210.7	1219.3
32.5°	1135.7	1142.1	1150.7	1174.3	1180.7
35°	1086.4	1090.7	1107.9	1129.3	1133.6
37.5°	1032.9	1037.1	1062.9	1086.4	1088.6
40°	983.6	985.7	1015.7	1037.1	1043.6
42.5°	921.4	936.4	968.6	990.0	994.3
45°	865.7	878.6	915.0	938.6	940.7
47.5°	812.1	825.0	861.4	880.7	882.9
50°	752.1	769.3	807.9	822.9	825.0
52.5°	694.3	715.7	752.1	765.0	762.9
55°	634.3	662.1	692.1	700.7	692.1
57.5°	574.3	606.4	634.3	632.1	612.9
60°	522.9	546.4	572.1	552.9	535.7
62.5°	460.7	490.7	505.7	480.0	477.9
65°	407.1	432.9	443.6	420.0	422.1
67.5°	349.3	375.0	370.7	364.3	360.0
70°	295.7	321.4	312.9	304.3	300.0
72.5°	244.3	265.7	257.1	250.7	244.3
75°	190.7	210.0	201.4	195.0	190.7
77.5°	145.7	156.4	152.1	145.7	141.4
80°	100.7	111.4	105.0	98.6	98.6
82.5°	62.1	70.7	64.3	60.0	57.9
85°	32.1	36.4	32.1	27.9	25.7
87.5°	12.9	12.9	8.6	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)