

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: P220278

Luminaire Tested: **Z3-WD-3L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220278
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35867)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WD-3L30-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A CLEAR SMOOTH ROUND LENS & ROUND PERF INLAY
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4640.9 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.4 / 1.46
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

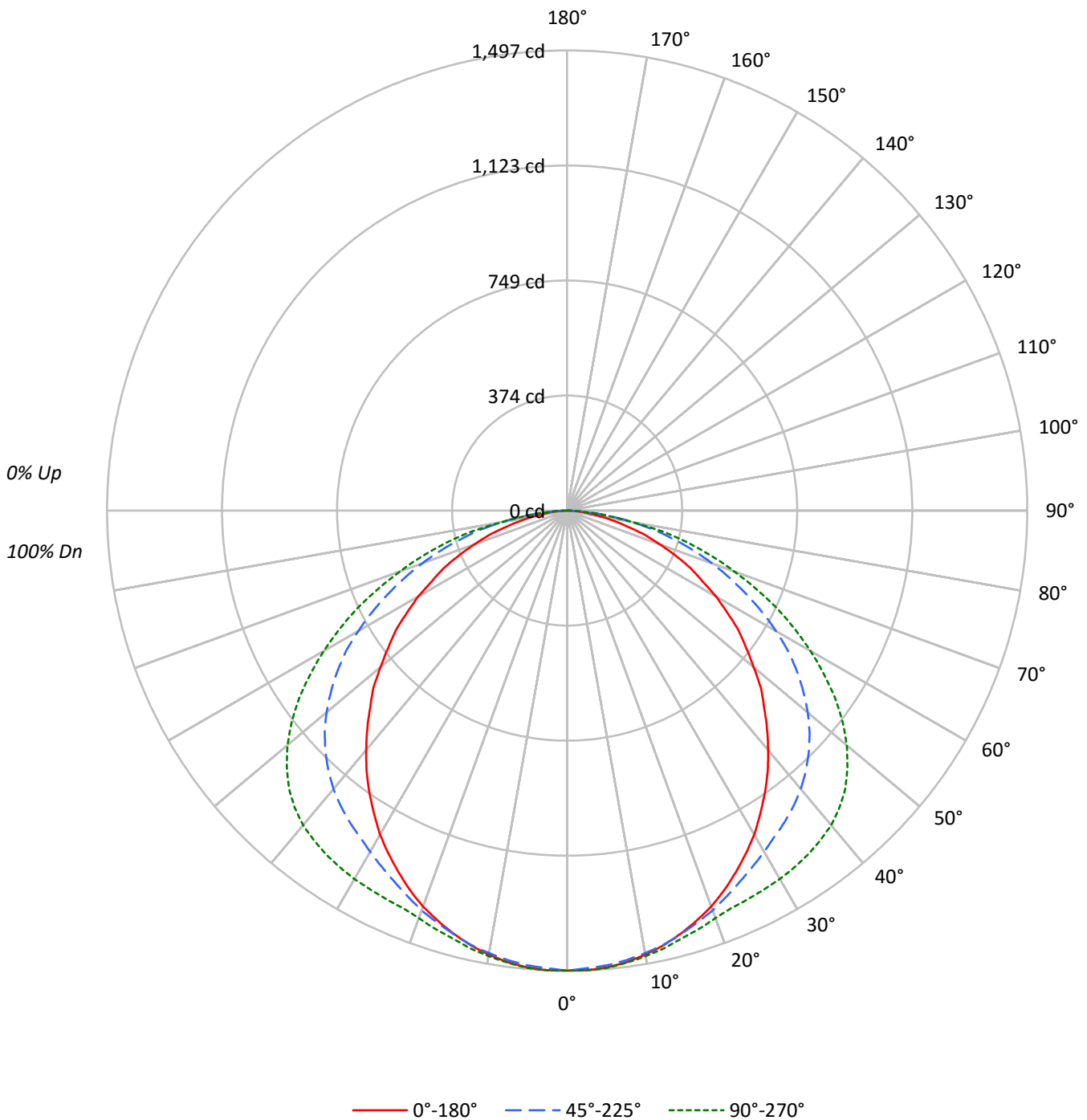
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	60	68	64	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	61	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2014	2014	2014
5°	2015	2006	2017
10°	2004	1997	2011
15°	1986	1988	2006
20°	1963	1982	2020
25°	1927	1976	2070
30°	1891	1991	2150
35°	1842	2029	2244
40°	1786	2077	2347
45°	1724	2115	2435
50°	1658	2139	2485
55°	1598	2141	2498
60°	1504	2114	2461
65°	1411	2048	2401
70°	1262	1971	2277
75°	1075	1857	2124
80°	859	1666	1666
85°	613	1200	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	3.0
10°-20°	404.1	8.7
20°-30°	618.9	13.3
30°-40°	775.9	16.7
40°-50°	848.4	18.3
50°-60°	796.6	17.2
60°-70°	615.1	13.3
70°-80°	353.8	7.6
80°-90°	86.7	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°	1164.5	25.1
0°-40°	1940.4	41.8
0°-60°	3585.3	77.3
0°-90°	4640.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4640.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1497	1497	1497	1497	1497	
5°	1492	1488	1485	1490	1493	142
15°	1426	1427	1427	1439	1440	402
25°	1298	1306	1331	1374	1394	598
35°	1121	1146	1235	1333	1366	701
45°	906	962	1111	1237	1280	700
55°	681	759	913	1030	1065	605
65°	443	519	643	728	754	435
75°	207	276	357	400	408	223
85°	40	73	78	74	74	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1496.6	1496.6	1496.6	1496.6	1496.6
2.5°	1496.6	1494.9	1490.0	1494.9	1496.6
5°	1491.6	1488.3	1485.0	1490.0	1493.3
7.5°	1481.7	1480.0	1475.1	1483.3	1483.3
10°	1466.8	1465.2	1461.9	1470.1	1471.8
12.5°	1448.6	1447.0	1447.0	1456.9	1458.5
15°	1425.5	1427.1	1427.1	1438.7	1440.4
17.5°	1399.0	1399.0	1405.6	1420.5	1427.1
20°	1370.9	1372.6	1384.1	1402.3	1410.6
22.5°	1336.2	1342.8	1357.7	1387.4	1399.0
25°	1298.1	1306.4	1331.2	1374.2	1394.1
27.5°	1258.4	1270.0	1306.4	1364.3	1389.1
30°	1217.1	1232.0	1281.6	1356.0	1384.1
32.5°	1169.2	1189.0	1256.8	1344.4	1375.9
35°	1121.2	1146.0	1235.3	1332.9	1365.9
37.5°	1071.6	1099.7	1210.5	1314.7	1352.7
40°	1017.0	1056.7	1182.4	1294.8	1336.2
42.5°	962.4	1010.4	1149.3	1270.0	1311.4
45°	906.2	962.4	1111.3	1237.0	1279.9
47.5°	855.0	914.5	1069.9	1195.6	1237.0
50°	792.1	866.5	1022.0	1147.7	1187.3
52.5°	734.2	815.3	969.1	1093.1	1129.5
55°	681.3	759.0	912.8	1030.2	1065.0
57.5°	616.8	701.2	853.3	962.4	990.6
60°	558.9	641.6	785.5	886.4	914.5
62.5°	494.4	587.1	716.0	810.3	835.1
65°	443.2	519.3	643.3	727.6	754.1
67.5°	380.3	456.4	572.2	646.6	664.8
70°	320.8	393.6	501.1	563.9	578.8
72.5°	267.9	332.4	430.0	481.2	494.4
75°	206.7	276.2	357.2	400.2	408.5
77.5°	157.1	218.3	287.7	315.9	322.5
80°	110.8	167.0	215.0	226.6	215.0
82.5°	71.1	117.4	147.2	140.6	135.6
85°	39.7	72.8	77.7	74.4	74.4
87.5°	16.5	26.5	26.5	24.8	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)