

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: P220277

Luminaire Tested: **Z3-WD-2L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220277
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-2L30-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: 3639.1 lumens
Efficiency: N/A
Efficacy: 119.3 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

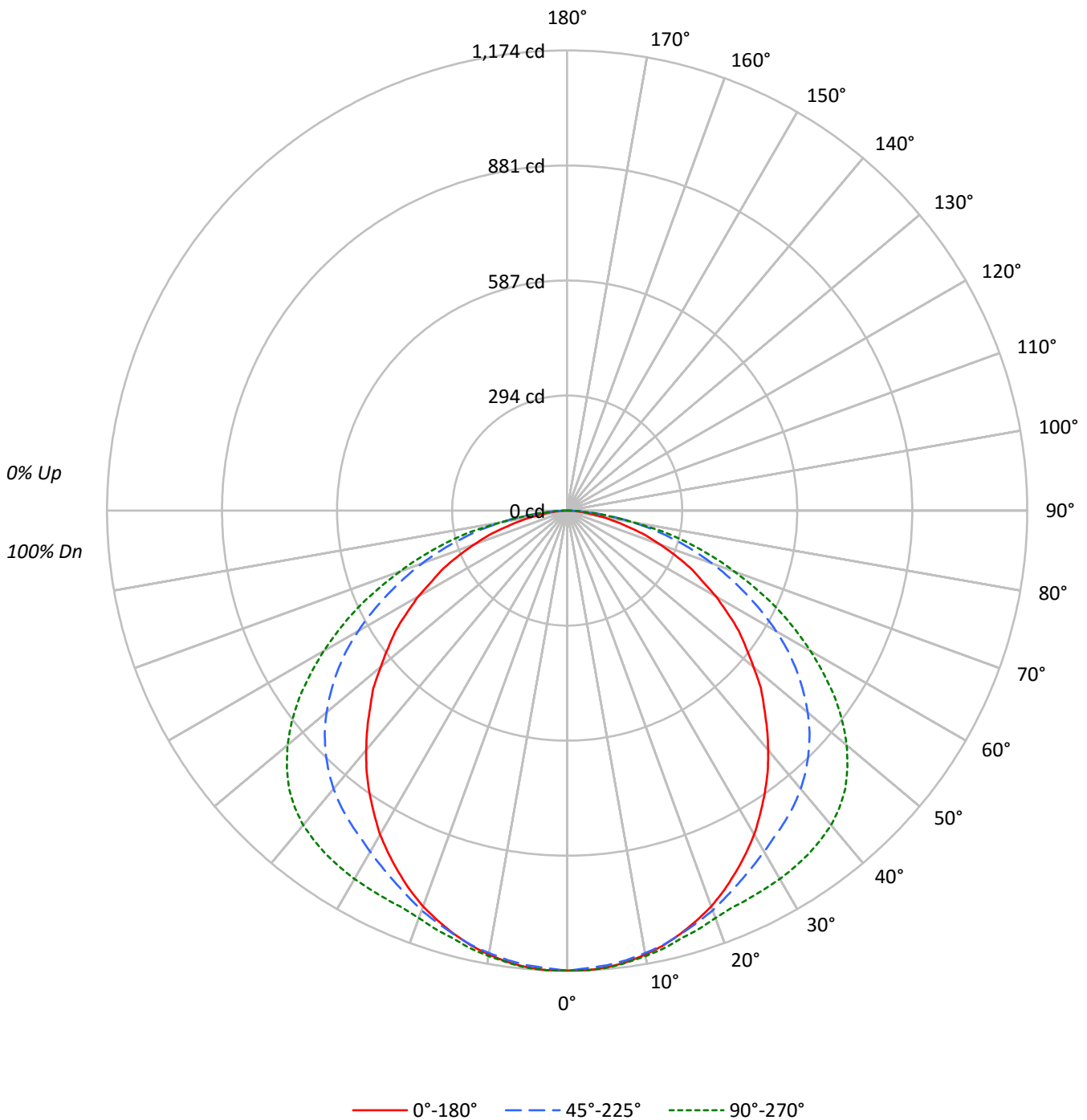
Input Watts (W): 30.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1579	1579	1579
5°	1580	1573	1581
10°	1571	1566	1577
15°	1557	1559	1573
20°	1539	1554	1584
25°	1511	1550	1623
30°	1483	1561	1686
35°	1444	1591	1759
40°	1401	1628	1840
45°	1352	1658	1910
50°	1300	1677	1949
55°	1253	1679	1959
60°	1179	1657	1930
65°	1106	1606	1883
70°	990	1546	1785
75°	843	1456	1665
80°	673	1306	1306
85°	480	940	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	3.0
10°-20°	316.9	8.7
20°-30°	485.3	13.3
30°-40°	608.4	16.7
40°-50°	665.2	18.3
50°-60°	624.6	17.2
60°-70°	482.3	13.3
70°-80°	277.4	7.6
80°-90°	68.0	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°	913.1	25.1
0°-40°	1521.5	41.8
0°-60°	2811.4	77.3
0°-90°	3639.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3639.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1174	1174	1174	1174	1174	
5°	1170	1167	1164	1168	1171	111
15°	1118	1119	1119	1128	1129	315
25°	1018	1024	1044	1078	1093	469
35°	879	899	969	1045	1071	550
45°	711	755	871	970	1004	549
55°	534	595	716	808	835	475
65°	348	407	504	571	591	341
75°	162	217	280	314	320	175
85°	31	57	61	58	58	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.5	1173.5	1173.5	1173.5	1173.5
2.5°	1173.5	1172.2	1168.3	1172.2	1173.5
5°	1169.6	1167.0	1164.4	1168.3	1170.9
7.5°	1161.9	1160.6	1156.7	1163.1	1163.1
10°	1150.2	1148.9	1146.3	1152.8	1154.1
12.5°	1135.9	1134.6	1134.6	1142.4	1143.7
15°	1117.8	1119.1	1119.1	1128.1	1129.4
17.5°	1097.0	1097.0	1102.2	1113.9	1119.1
20°	1075.0	1076.3	1085.3	1099.6	1106.1
22.5°	1047.7	1052.9	1064.6	1087.9	1097.0
25°	1017.9	1024.4	1043.9	1077.6	1093.1
27.5°	986.8	995.9	1024.4	1069.8	1089.2
30°	954.4	966.0	1004.9	1063.3	1085.3
32.5°	916.8	932.3	985.5	1054.2	1078.9
35°	879.2	898.6	968.6	1045.1	1071.1
37.5°	840.3	862.3	949.2	1030.9	1060.7
40°	797.5	828.6	927.1	1015.3	1047.7
42.5°	754.7	792.3	901.2	995.9	1028.3
45°	710.6	754.7	871.4	969.9	1003.7
47.5°	670.4	717.1	839.0	937.5	969.9
50°	621.1	679.5	801.4	899.9	931.0
52.5°	575.7	639.3	759.9	857.1	885.7
55°	534.2	595.2	715.8	807.9	835.1
57.5°	483.7	549.8	669.1	754.7	776.7
60°	438.3	503.1	615.9	695.0	717.1
62.5°	387.7	460.3	561.5	635.4	654.8
65°	347.5	407.2	504.4	570.6	591.3
67.5°	298.2	357.9	448.7	507.0	521.3
70°	251.6	308.6	392.9	442.2	453.8
72.5°	210.1	260.6	337.1	377.3	387.7
75°	162.1	216.6	280.1	313.8	320.3
77.5°	123.2	171.2	225.6	247.7	252.9
80°	86.9	131.0	168.6	177.6	168.6
82.5°	55.8	92.1	115.4	110.2	106.3
85°	31.1	57.1	60.9	58.4	58.4
87.5°	13.0	20.7	20.7	19.5	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)