

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: p31380

Luminaire Tested: **E3-WL-2N5-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: p31380
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E3-WL-2N5-1C-UNV-24-T1
Description: CORELITE 2X4 CLASS E RECESSED FIXTURE WITH FROSTED ROUND PRISMATIC MIDDLE LENS WITH PRISMS FACING UP RUNNING PARALLEL TO LAMPS AND TWO FROSTED LENS ON SIDES
Light Source: (2) BIPIN T5 DOUBLE ENDED LINEAR FLUORESCENT LAMP 3500K F28W/T5/835/ECO
Ballast/Driver: (1) GE ELECTRONIC BALLAST GE228MVPS-D

Summary

Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 4979.0 lumens
Efficiency: 85.8%
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.38 / 1.43
Luminous Opening: Rectangular (W 1.77' x L: 3.69' x H: 0')
CIE Type: Direct

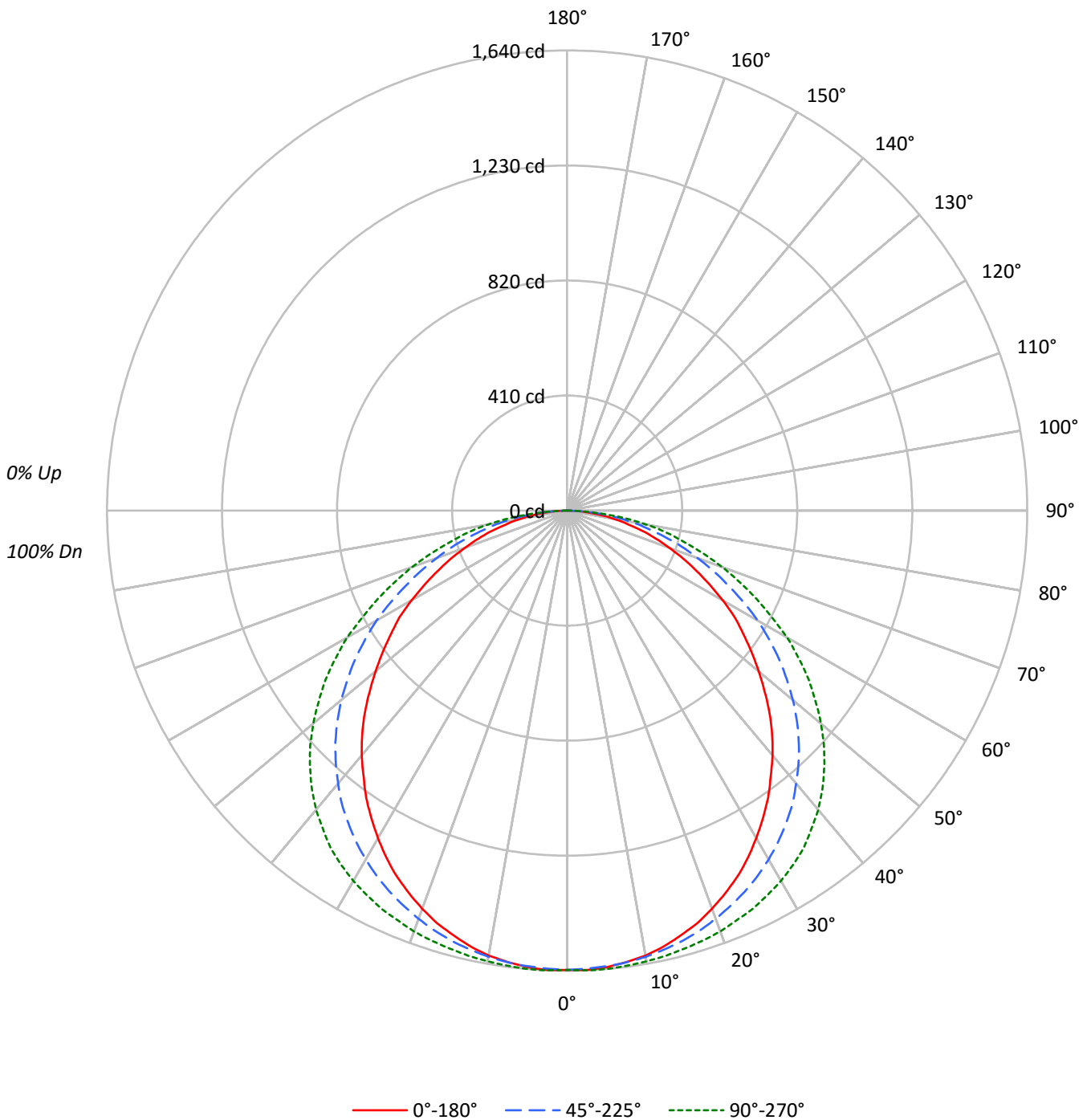
Input Watts (W): 68.5
Input Voltage (V): 120.00
Input Current (Ain): 0.5720
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0	
RCR																						
0	102	102	102	102	100	100	100	100	95	95	95	91	91	91	88	88	88	86				86
1	93	89	85	82	91	87	83	80	83	80	78	80	77	75	77	75	73	71				71
2	84	77	71	66	82	75	70	65	72	68	64	70	66	62	67	64	61	59				59
3	77	67	60	55	75	66	59	54	64	58	53	61	56	52	59	55	51	49				49
4	70	60	52	46	68	58	51	46	56	50	45	54	49	44	52	48	44	42				42
5	64	53	45	39	63	52	45	39	50	44	39	49	43	38	47	42	38	36				36
6	59	48	40	34	58	47	40	34	45	39	34	44	38	34	43	37	33	31				31
7	55	43	36	30	54	43	35	30	41	35	30	40	34	30	39	33	29	28				28
8	51	39	32	27	50	39	32	27	38	31	27	37	31	26	36	30	26	25				25
9	48	36	29	24	47	36	29	24	35	28	24	34	28	24	33	28	24	22				22
10	45	33	26	22	44	33	26	22	32	26	22	31	26	22	30	25	21	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2698	2698	2698
5°	2702	2697	2714
10°	2695	2703	2730
15°	2674	2710	2758
20°	2649	2715	2800
25°	2615	2725	2848
30°	2566	2733	2901
35°	2513	2737	2956
40°	2451	2733	2995
45°	2378	2723	3021
50°	2285	2693	3029
55°	2201	2650	3020
60°	2110	2588	2987
65°	1985	2481	2902
70°	1860	2381	2829
75°	1751	2280	2745
80°	1604	2212	2734
85°	1400	2005	2232



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	155.5	3.1	2.7
10°-20°	449.4	9.0	7.7
20°-30°	691.8	13.9	11.9
30°-40°	850.5	17.1	14.7
40°-50°	896.7	18.0	15.5
50°-60°	817.1	16.4	14.1
60°-70°	627.0	12.6	10.8
70°-80°	377.6	7.6	6.5
80°-90°	113.4	2.3	2.0
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	1296.7	26.0	22.4
0°-40°	2147.2	43.1	37.0
0°-60°	3861.0	77.5	66.6
0°-90°	4979.0	100.0	85.8
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	4979.0	100.0	85.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1637	1637	1637	1637	1637	
5°	1633	1633	1630	1637	1640	155
15°	1567	1574	1588	1609	1616	442
25°	1438	1456	1498	1546	1566	662
35°	1249	1284	1360	1438	1469	780
45°	1020	1066	1168	1264	1296	786
55°	766	813	922	1016	1051	686
65°	509	551	636	718	744	505
75°	275	299	358	414	431	291
85°	74	85	106	114	118	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1637	1637	1637	1637	1637
2.5°	1639	1637	1634	1638	1640
5°	1633	1633	1630	1637	1640
7.5°	1623	1625	1624	1633	1636
10°	1610	1612	1615	1627	1631
12.5°	1591	1595	1602	1619	1625
15°	1567	1574	1588	1609	1616
17.5°	1542	1551	1570	1597	1607
20°	1510	1522	1548	1582	1596
22.5°	1475	1491	1524	1566	1580
25°	1438	1456	1498	1546	1566
27.5°	1395	1418	1469	1524	1545
30°	1348	1376	1436	1499	1524
32.5°	1299	1331	1400	1471	1498
35°	1249	1284	1360	1438	1469
37.5°	1192	1234	1319	1400	1430
40°	1139	1179	1270	1358	1392
42.5°	1081	1124	1221	1312	1347
45°	1020	1066	1168	1264	1296
47.5°	955	1004	1111	1209	1242
50°	891	945	1050	1145	1181
52.5°	828	878	986	1084	1116
55°	766	813	922	1016	1051
57.5°	709	751	853	942	978
60°	640	684	785	870	906
62.5°	573	615	710	796	821
65°	509	551	636	718	744
67.5°	448	486	565	641	664
70°	386	422	494	562	587
72.5°	331	359	429	487	507
75°	275	299	358	414	431
77.5°	219	242	292	340	363
80°	169	186	233	274	288
82.5°	120	132	168	200	208
85°	74	85	106	114	118
87.5°	32	39	38	33	32
90°	0	0	0	0	0

(END OF REPORT)