

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: ITL67596

Luminaire Tested: **Z3-WB-2T8-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67596
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WB-2T8-1C-UNV-24-T1
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH, TWO FORMED WHITE PAINTED OUTBOARD REFLECTORS, ONE EXTRUDED FROSTED PLASTIC DIFFUSER BELOW EACH REFLECTOR, EXTRUDED CLEAR LINEAR PRISMATIC PLASTIC LENS BELOW LAMPS WITH FROSTED MICRO-LINEAR SIDES AND MOLDED WHITE PLASTIC 83-CELL INTERIOR LOUVER, BOTTOM LENS PRISMS UP AND PARALLEL WITH LAMPS, SIDE PRISMS OUT AND PARALLEL WITH LAMPS, DIFFUSERS FROSTED BOTH SIDES.
Light Source: TWO 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.
Ballast/Driver: GE GE-232-MV-N

Summary

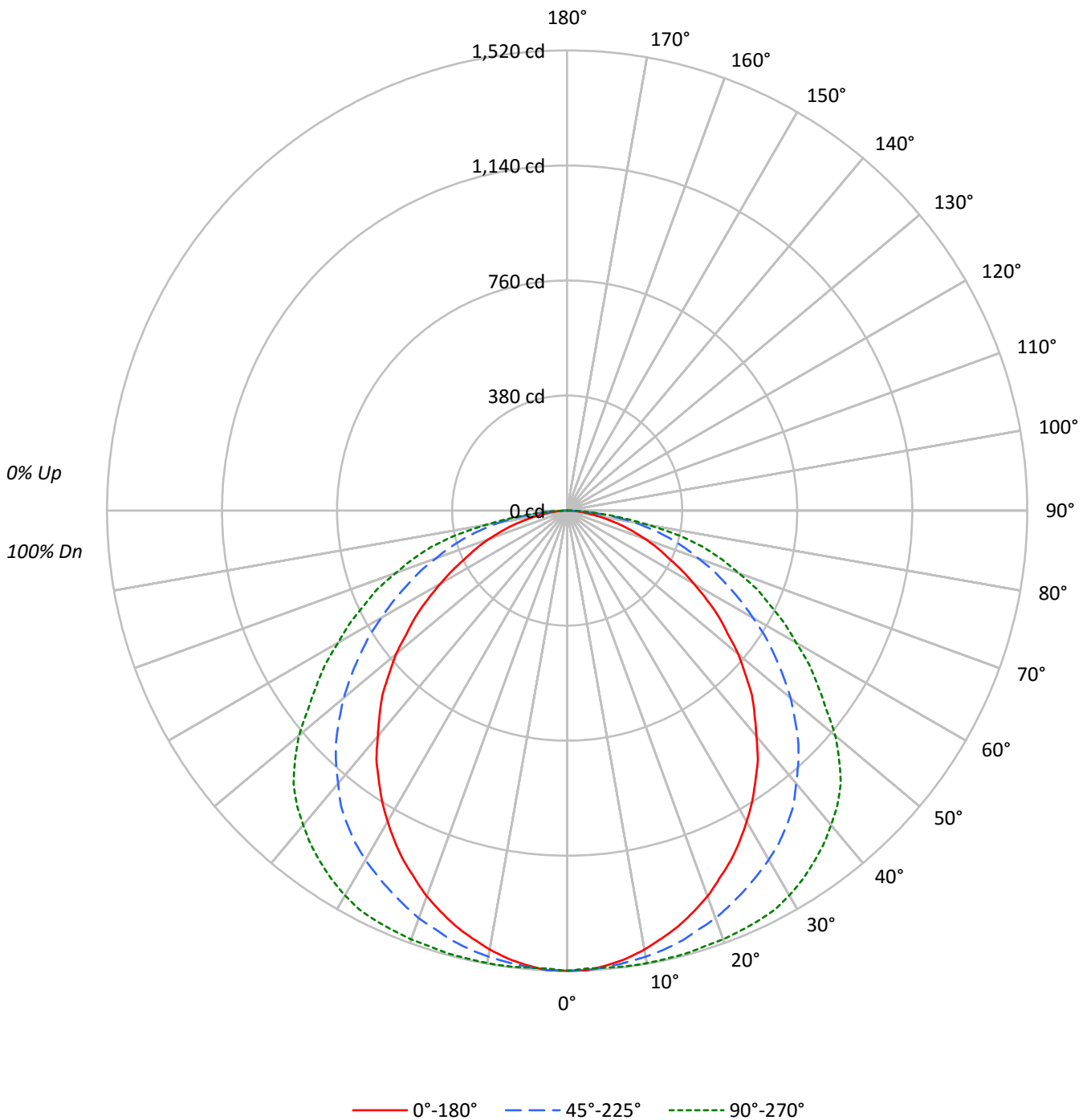
Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 4576.3 lumens
Efficiency: 77.6%
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.43 / 1.43
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 54.6
Input Voltage (V): NR
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	92	92	92	92	90	90	90	90	86	86	86	83	83	83	79	79	79	78
1	84	80	77	74	82	78	75	73	75	73	70	72	70	68	69	68	66	64
2	76	70	64	60	74	68	63	59	65	61	58	63	59	56	61	58	55	53
3	69	61	55	49	67	60	54	49	57	52	48	55	51	47	53	50	46	45
4	63	54	47	42	62	53	46	41	51	45	41	49	44	40	47	43	40	38
5	58	48	41	36	57	47	41	36	46	40	35	44	39	35	43	38	34	33
6	54	43	36	31	52	43	36	31	41	35	31	40	34	30	39	34	30	29
7	50	39	32	27	48	39	32	27	37	31	27	36	31	27	35	30	27	25
8	46	36	29	24	45	35	29	24	34	28	24	33	28	24	32	27	24	22
9	43	33	26	22	42	32	26	22	31	26	22	31	25	22	30	25	21	20
10	41	30	24	20	40	30	24	20	29	23	20	28	23	20	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2331	2331	2331
5°	2321	2329	2332
10°	2292	2330	2364
15°	2256	2334	2405
20°	2213	2339	2459
25°	2161	2344	2530
30°	2100	2359	2599
35°	2031	2370	2657
40°	1948	2356	2715
45°	1872	2342	2772
50°	1761	2297	2758
55°	1636	2241	2706
60°	1484	2175	2681
65°	1335	2115	2682
70°	1229	2067	2695
75°	1084	2062	2749
80°	892	1996	2393
85°	686	1601	1707



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	143.9	3.1	2.4
10°-20°	414.7	9.1	7.0
20°-30°	639.2	14.0	10.8
30°-40°	787.4	17.2	13.3
40°-50°	827.0	18.1	14.0
50°-60°	741.5	16.2	12.6
60°-70°	569.6	12.4	9.7
70°-80°	354.2	7.7	6.0
80°-90°	98.9	2.2	1.7
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°	1197.8	26.2	20.3
0°-40°	1985.2	43.4	33.6
0°-60°	3553.7	77.7	60.2
0°-90°	4576.3	100.0	77.6
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°	4576.3	100.0	77.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1520	1520	1520	1520	1520	
5°	1508	1512	1513	1514	1515	143
15°	1421	1435	1470	1500	1515	400
25°	1277	1311	1385	1459	1495	587
35°	1085	1147	1266	1374	1419	679
45°	863	936	1080	1213	1278	662
55°	612	697	838	969	1012	544
65°	368	450	583	710	739	370
75°	183	242	348	439	464	194
85°	39	71	91	100	97	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1520	1520	1520	1520	1520
2.5°	1520	1521	1519	1516	1514
5°	1508	1512	1513	1514	1515
7.5°	1493	1497	1505	1515	1518
10°	1472	1480	1496	1513	1518
12.5°	1447	1458	1485	1506	1516
15°	1421	1435	1470	1500	1515
17.5°	1389	1411	1450	1493	1509
20°	1356	1380	1433	1482	1507
22.5°	1315	1349	1409	1472	1501
25°	1277	1311	1385	1459	1495
27.5°	1233	1274	1359	1446	1486
30°	1186	1233	1332	1429	1468
32.5°	1138	1190	1302	1405	1446
35°	1085	1147	1266	1374	1419
37.5°	1035	1094	1228	1337	1391
40°	973	1047	1177	1301	1356
42.5°	917	991	1130	1259	1321
45°	863	936	1080	1213	1278
47.5°	797	880	1021	1165	1219
50°	738	819	963	1100	1156
52.5°	668	764	900	1041	1079
55°	612	697	838	969	1012
57.5°	546	634	776	902	948
60°	484	570	709	832	874
62.5°	426	509	647	771	811
65°	368	450	583	710	739
67.5°	323	392	526	641	679
70°	274	342	461	577	601
72.5°	227	289	406	505	536
75°	183	242	348	439	464
77.5°	138	200	286	366	379
80°	101	153	226	271	271
82.5°	68	114	153	187	178
85°	39	71	91	100	97
87.5°	16	30	36	37	37
90°	0	0	0	0	0

(END OF REPORT)