

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: ITL67593

Luminaire Tested: **R3-WN-2T8-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67593
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WN-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 PLASTIC LENS BELOW LAMPS WITH LINEAR PRISMATIC SIDES AND FROSTED PLASTIC OVERLAY, LENS PRISMS OUT AND PARALLEL WITH LAMPS, OVERLAY FROSTED SIDE DOWN, DIFFUSERS FROSTED BOTH SIDES.
Light Source: TWO 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.
Ballast/Driver: GE GE-232-MV-N

Summary

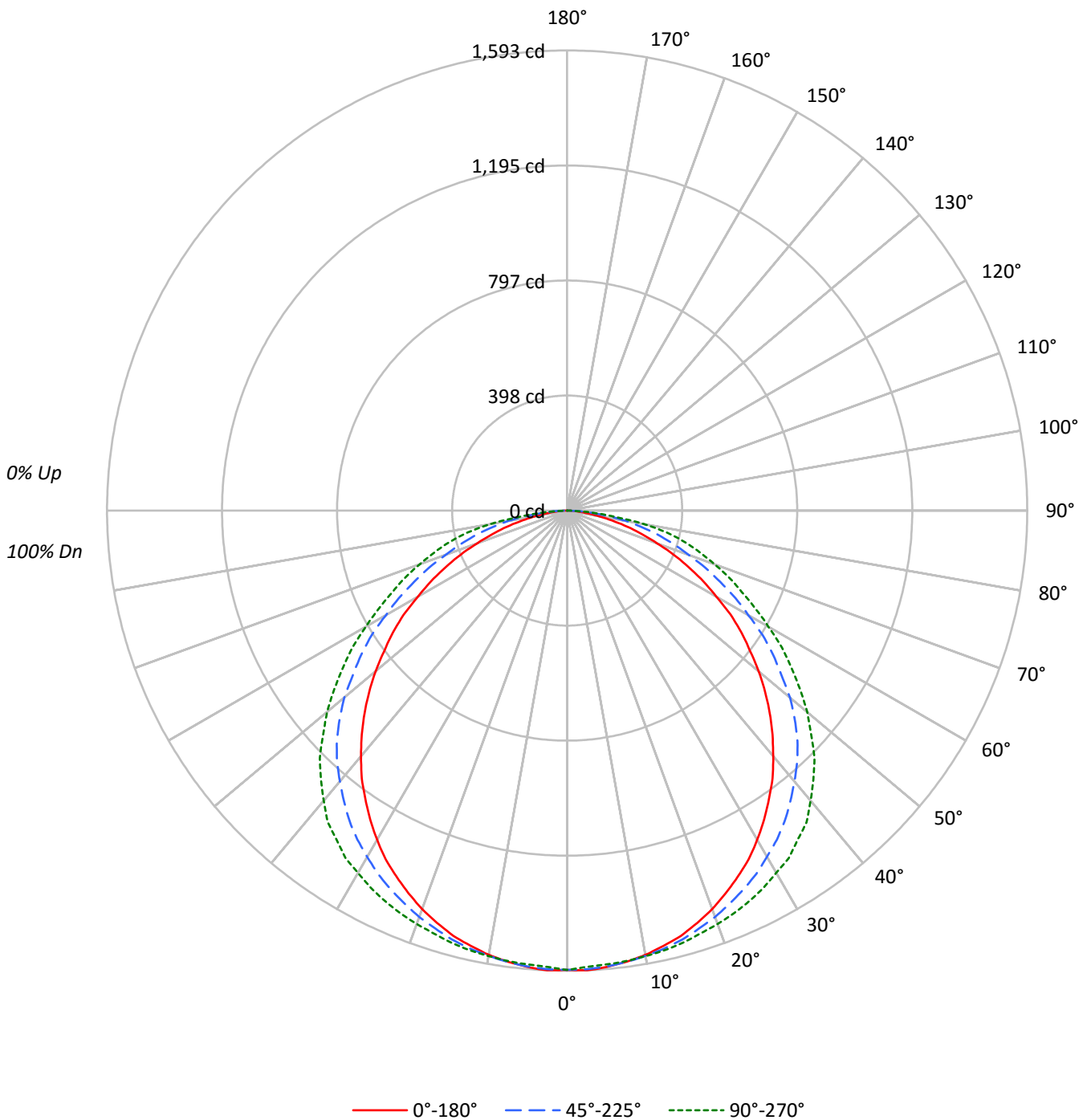
Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 4703.6 lumens
Efficiency: 79.7%
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.36 / 1.42
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 54.9
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									
RC	80									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	95	95	95	95	93	93	93	93	89	89	89	85	85	85	81	81	81	80																			
1	87	83	79	76	84	81	78	75	77	75	73	74	72	70	71	70	68	67																			
2	79	72	66	62	77	70	65	61	68	63	60	65	61	58	63	60	57	55																			
3	72	63	56	51	70	62	56	51	59	54	50	57	53	49	55	51	48	46																			
4	65	56	49	43	64	55	48	43	53	47	42	51	46	42	49	45	41	39																			
5	60	50	43	37	58	49	42	37	47	41	37	46	40	36	44	39	36	34																			
6	56	45	38	32	54	44	37	32	43	36	32	41	36	32	40	35	31	30																			
7	51	41	33	29	50	40	33	28	39	33	28	37	32	28	36	32	28	26																			
8	48	37	30	25	47	36	30	25	35	29	25	34	29	25	33	29	25	23																			
9	45	34	27	23	44	33	27	23	32	27	23	32	26	23	31	26	22	21																			
10	42	31	25	21	41	31	25	21	30	24	21	29	24	20	29	24	20	19																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2438	2438	2438
5°	2441	2438	2428
10°	2432	2437	2439
15°	2420	2442	2459
20°	2396	2443	2485
25°	2366	2447	2525
30°	2330	2451	2564
35°	2280	2458	2604
40°	2222	2450	2624
45°	2151	2446	2626
50°	2066	2402	2589
55°	1970	2326	2532
60°	1831	2224	2469
65°	1684	2119	2420
70°	1489	2004	2435
75°	1280	1938	2500
80°	989	1828	2393
85°	686	1337	1619



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	150.5	3.2	2.6
10°-20°	433.9	9.2	7.4
20°-30°	666.9	14.2	11.3
30°-40°	819.3	17.4	13.9
40°-50°	857.8	18.2	14.5
50°-60°	766.1	16.3	13.0
60°-70°	574.8	12.2	9.7
70°-80°	342.8	7.3	5.8
80°-90°	91.4	1.9	1.5
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°	1251.4	26.6	21.2
0°-40°	2070.7	44.0	35.1
0°-60°	3694.6	78.5	62.6
0°-90°	4703.6	100.0	79.7
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°	4703.6	100.0	79.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1586	1587	1584	1580	1577	151
15°	1524	1528	1538	1545	1549	429
25°	1398	1414	1446	1479	1492	644
35°	1218	1251	1313	1376	1391	762
45°	992	1037	1128	1189	1211	765
55°	737	789	870	930	947	657
65°	464	523	584	652	667	460
75°	216	260	327	395	422	229
85°	39	62	76	90	92	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1590	1590	1590	1590	1590
2.5°	1593	1592	1589	1583	1581
5°	1586	1587	1584	1580	1577
7.5°	1575	1576	1576	1575	1573
10°	1562	1563	1565	1567	1566
12.5°	1543	1547	1553	1557	1559
15°	1524	1528	1538	1545	1549
17.5°	1497	1505	1517	1533	1535
20°	1468	1478	1497	1515	1523
22.5°	1434	1450	1472	1498	1509
25°	1398	1414	1446	1479	1492
27.5°	1361	1379	1418	1458	1472
30°	1316	1336	1384	1432	1448
32.5°	1269	1294	1351	1405	1427
35°	1218	1251	1313	1376	1391
37.5°	1168	1200	1269	1335	1361
40°	1110	1149	1224	1296	1311
42.5°	1052	1093	1179	1245	1262
45°	992	1037	1128	1189	1211
47.5°	930	981	1068	1134	1145
50°	866	915	1007	1067	1085
52.5°	798	855	934	1002	1016
55°	737	789	870	930	947
57.5°	671	722	802	861	881
60°	597	651	725	787	805
62.5°	533	585	657	717	735
65°	464	523	584	652	667
67.5°	399	448	518	579	608
70°	332	384	447	521	543
72.5°	272	319	386	453	482
75°	216	260	327	395	422
77.5°	158	206	264	336	355
80°	112	155	207	256	271
82.5°	69	107	136	173	169
85°	39	62	76	90	92
87.5°	15	25	31	32	32
90°	0	0	0	0	0

(END OF REPORT)