

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: ITL67599

Luminaire Tested: **R3-WB-2N5-1C-UNV-24-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67599
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R3-WB-2N5-1C-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 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 28-WATT T-5 SYLVANIA FP28/835 LINEAR FLUORESCENTS.
Ballast/Driver: GE GE228MVPS-A

Summary

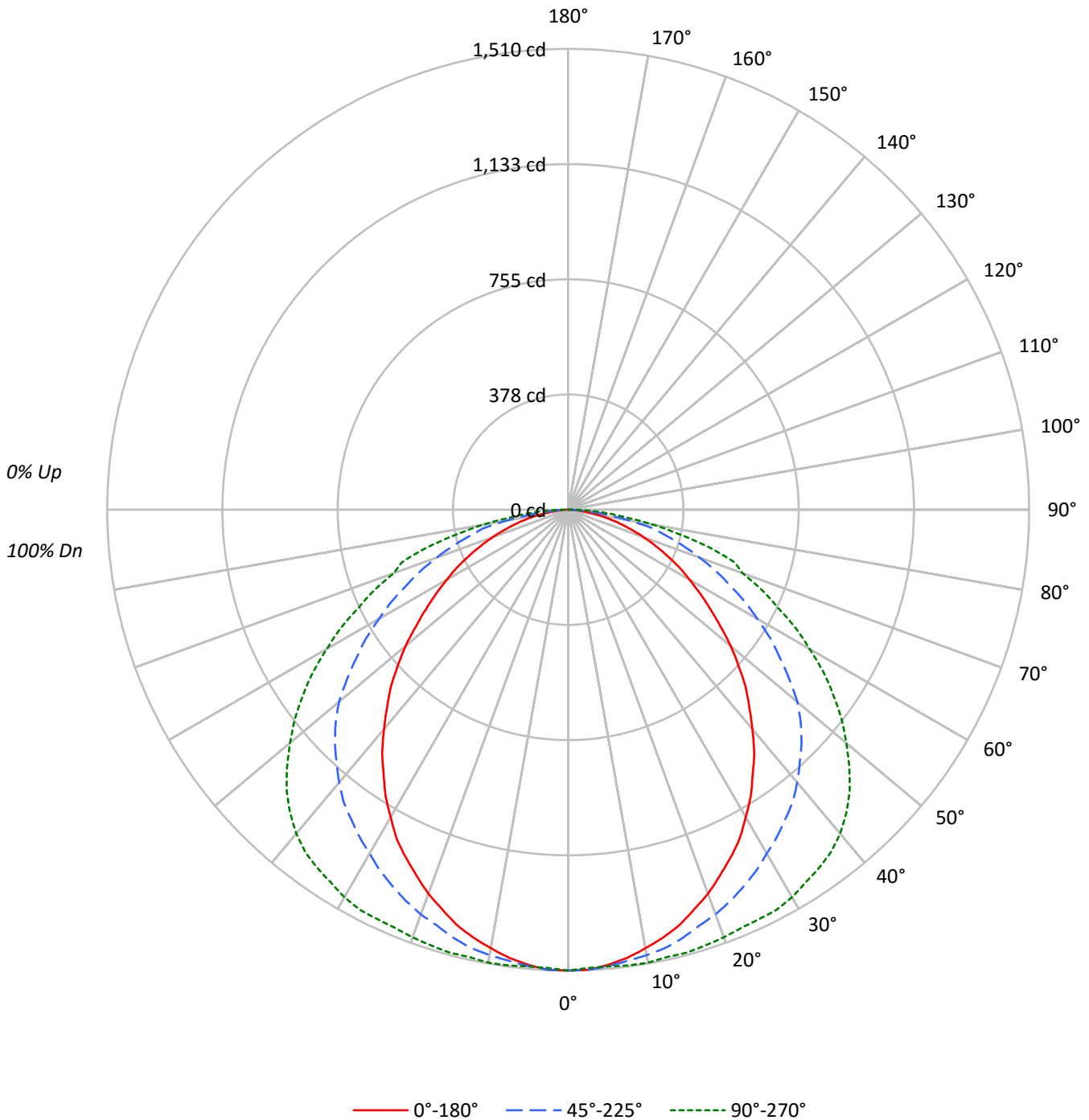
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 4544.6 lumens
Efficiency: 87.4%
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.45 / 1.43
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')
CIE Type: Direct

Input Watts (W): 62.7
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	104	104	104	104	102	102	102	102	97	97	97		93	93	93		89	89	89	87
1	95	90	87	83	92	88	85	82	85	82	79		81	79	77		78	76	74	73
2	86	79	72	67	84	77	71	66	74	69	65		71	67	63		68	65	62	60
3	78	69	61	56	76	67	61	55	65	59	54		62	57	53		60	56	52	50
4	71	61	53	47	69	60	52	47	57	51	46		55	50	45		53	49	45	43
5	66	54	46	40	64	53	46	40	51	45	40		50	44	39		48	43	39	37
6	61	49	41	35	59	48	40	35	46	40	35		45	39	34		43	38	34	32
7	56	44	36	31	55	43	36	31	42	35	30		41	35	30		40	34	30	28
8	52	40	33	27	51	40	32	27	38	32	27		37	31	27		36	31	27	25
9	49	37	30	25	47	36	29	25	35	29	24		34	28	24		33	28	24	23
10	46	34	27	22	45	33	27	22	33	26	22		32	26	22		31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2316	2316	2316
5°	2304	2311	2312
10°	2272	2308	2347
15°	2237	2305	2385
20°	2185	2303	2433
25°	2129	2303	2504
30°	2059	2304	2596
35°	1973	2320	2683
40°	1880	2336	2775
45°	1783	2344	2828
50°	1658	2338	2837
55°	1521	2265	2837
60°	1408	2193	2800
65°	1299	2115	2743
70°	1175	2054	2722
75°	1037	1991	2844
80°	848	1802	2499
85°	616	1302	2164



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	142.7	3.1	2.7
10°-20°	410.3	9.0	7.9
20°-30°	630.0	13.9	12.1
30°-40°	777.3	17.1	14.9
40°-50°	823.6	18.1	15.8
50°-60°	744.5	16.4	14.3
60°-70°	570.8	12.6	11.0
70°-80°	349.1	7.7	6.7
80°-90°	96.1	2.1	1.8
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°	1183.0	26.0	22.8
0°-40°	1960.4	43.1	37.7
0°-60°	3528.5	77.6	67.9
0°-90°	4544.6	100.0	87.4
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°	4544.6	100.0	87.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1497	1501	1501	1503	1502	142
15°	1409	1419	1452	1486	1502	396
25°	1258	1290	1361	1438	1480	579
35°	1054	1110	1239	1373	1433	660
45°	822	896	1081	1240	1304	631
55°	569	666	847	1001	1061	511
65°	358	446	583	724	756	356
75°	175	231	336	460	480	186
85°	35	58	74	110	123	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1510	1510	1510	1510	1510
2.5°	1509	1510	1509	1505	1503
5°	1497	1501	1501	1503	1502
7.5°	1481	1483	1491	1501	1506
10°	1459	1467	1482	1502	1507
12.5°	1436	1443	1471	1491	1501
15°	1409	1419	1452	1486	1502
17.5°	1373	1392	1429	1479	1497
20°	1339	1362	1411	1466	1491
22.5°	1298	1330	1388	1454	1483
25°	1258	1290	1361	1438	1480
27.5°	1216	1250	1334	1431	1478
30°	1163	1202	1301	1417	1466
32.5°	1113	1158	1272	1398	1448
35°	1054	1110	1239	1373	1433
37.5°	1001	1057	1208	1350	1414
40°	939	1007	1167	1322	1386
42.5°	878	950	1123	1290	1348
45°	822	896	1081	1240	1304
47.5°	757	842	1033	1187	1249
50°	695	776	980	1125	1189
52.5°	629	724	913	1066	1129
55°	569	666	847	1001	1061
57.5°	513	615	785	936	992
60°	459	549	715	861	913
62.5°	411	493	652	792	841
65°	358	446	583	724	756
67.5°	310	385	522	644	687
70°	262	329	458	577	607
72.5°	218	274	396	490	571
75°	175	231	336	460	480
77.5°	134	192	286	354	374
80°	96	146	204	260	283
82.5°	64	97	128	188	191
85°	35	58	74	110	123
87.5°	15	21	34	58	64
90°	0	0	0	0	0

(END OF REPORT)