

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: ITL67613

Luminaire Tested: **R2-WD-2N5-1C-UNV-22-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL67613
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: R2-WD-2N5-1C-UNV-22-T1
Description: FORMED WHITE PAINTED METAL REFLECTOR, FORMED WHITE PAINTED METAL BALLAST COVER, FABRICATED WHITE PAINTED METAL END PLATES, EXTRUDED CLEAR PLASTIC LENS WITH LINEAR PRISMATIC SIDES AND FROSTED PLASTIC OVERLAY WITH WHITE GRID PATTERN ON TOP SURFACE, LENS PRISMS OUT AND PARALLEL WITH LAMPS, OVERLAY FROSTED SIDE DOWN.
Light Source: TWO 14-WATT T-5 PHILIPS F14T5/835 LINEAR FLUORESCENTS.
Ballast/Driver: UNIVERSAL B228PUNV-C

Summary

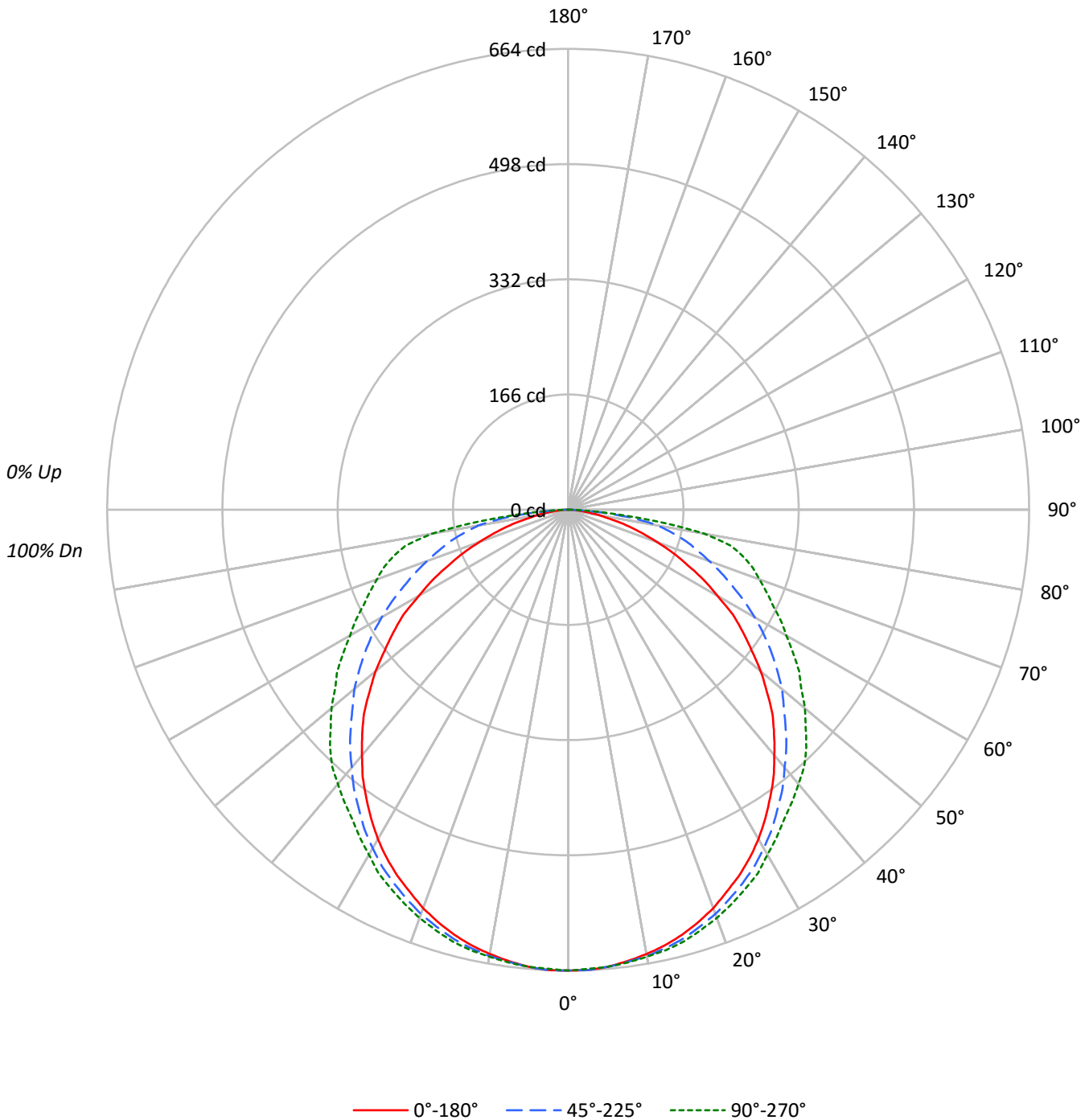
Lumens per Lamp: 1200 (2 lamps)
Luminaire Lumens: 2010.0 lumens
Efficiency: 83.8%
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 1.93' x L: 1.9' x H: 0')
CIE Type: Direct

Input Watts (W): 30.6
Input Voltage (V): NR
Input Current (A_{in}): 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	0	
RCR																						
0	100	100	100	100	97	97	97	97	93	93	93	89	89	89	85	85	85	84				84
1	90	86	82	79	88	84	81	77	81	78	75	77	75	73	74	72	70	69				69
2	82	74	68	63	79	73	67	62	70	65	61	67	63	60	64	61	58	56				56
3	74	65	58	52	72	64	57	52	61	55	51	59	54	50	57	52	49	47				47
4	68	57	50	44	66	56	49	44	54	48	43	52	47	42	50	46	42	40				40
5	62	51	43	38	61	50	43	37	48	42	37	47	41	37	45	40	36	34				34
6	58	46	38	33	56	45	38	33	44	37	32	42	36	32	41	36	32	30				30
7	53	42	34	29	52	41	34	29	40	33	29	38	33	28	37	32	28	26				26
8	50	38	31	26	48	37	30	26	36	30	25	35	29	25	34	29	25	23				23
9	46	35	28	23	45	34	28	23	33	27	23	32	27	23	32	26	23	21				21
10	43	32	25	21	42	32	25	21	31	25	21	30	25	21	29	24	21	19				19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1946	1946	1946
5°	1944	1944	1944
10°	1934	1943	1946
15°	1923	1942	1954
20°	1905	1933	1952
25°	1882	1921	1950
30°	1854	1905	1942
35°	1814	1882	1942
40°	1767	1855	1974
45°	1724	1836	2010
50°	1650	1833	2029
55°	1568	1824	2074
60°	1453	1817	2127
65°	1324	1810	2253
70°	1165	1851	2510
75°	985	1993	2955
80°	759	2211	3358
85°	437	1647	2017



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	62.8	3.1	2.6
10°-20°	180.4	9.0	7.5
20°-30°	273.6	13.6	11.4
30°-40°	329.5	16.4	13.7
40°-50°	345.0	17.2	14.4
50°-60°	318.5	15.8	13.3
60°-70°	258.7	12.9	10.8
70°-80°	184.5	9.2	7.7
80°-90°	57.0	2.8	2.4
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°	516.8	25.7	21.5
0°-40°	846.3	42.1	35.3
0°-60°	1509.8	75.1	62.9
0°-90°	2010.0	100.0	83.8
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°	2010.0	100.0	83.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	661	662	661	661	661	63
15°	634	637	640	642	644	179
25°	582	586	594	601	603	268
35°	507	516	526	540	543	317
45°	416	423	443	474	485	319
55°	307	320	357	391	406	274
65°	191	214	261	309	325	190
75°	87	116	176	239	261	92
85°	13	28	49	57	60	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664	664	664	664	664
2.5°	664	664	664	663	662
5°	661	662	661	661	661
7.5°	656	657	657	658	658
10°	650	652	653	654	654
12.5°	643	644	647	649	650
15°	634	637	640	642	644
17.5°	623	627	630	635	635
20°	611	615	620	624	626
22.5°	596	602	607	614	615
25°	582	586	594	601	603
27.5°	566	572	580	587	591
30°	548	553	563	572	574
32.5°	528	535	546	555	559
35°	507	516	526	540	543
37.5°	486	492	507	521	530
40°	462	472	485	506	516
42.5°	439	446	465	491	503
45°	416	423	443	474	485
47.5°	388	399	421	456	464
50°	362	372	402	433	445
52.5°	333	347	379	414	423
55°	307	320	357	391	406
57.5°	281	294	334	371	384
60°	248	265	310	349	363
62.5°	221	239	286	328	345
65°	191	214	261	309	325
67.5°	164	188	239	289	309
70°	136	164	216	273	293
72.5°	111	138	195	256	279
75°	87	116	176	239	261
77.5°	62	94	153	218	240
80°	45	72	131	189	199
82.5°	27	52	96	129	128
85°	13	28	49	57	60
87.5°	6	9	16	20	18
90°	0	0	0	0	0

(END OF REPORT)