

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: METALUX

Report Number: ITL63015

Luminaire Tested: **2RDI-332FLS-UNV-EB81-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-41-14  
Report Number: ITL63015  
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2RDI-332FLS-UNV-EB81-U  
Description: 2X4 RECESSED DIRECT/INDIRECT WITH CENTER MOUNTED  
TRANSLUCENT WHITE LINEAR PRISMATIC PLASTIC LENS, MATTE  
WHITE FINISH REFLECTOR AND BALLAST COVER.  
Light Source: THREE 32W T8 F32T8/TL735 LAMPS - 2800 LUMENS EA  
Ballast/Driver: -

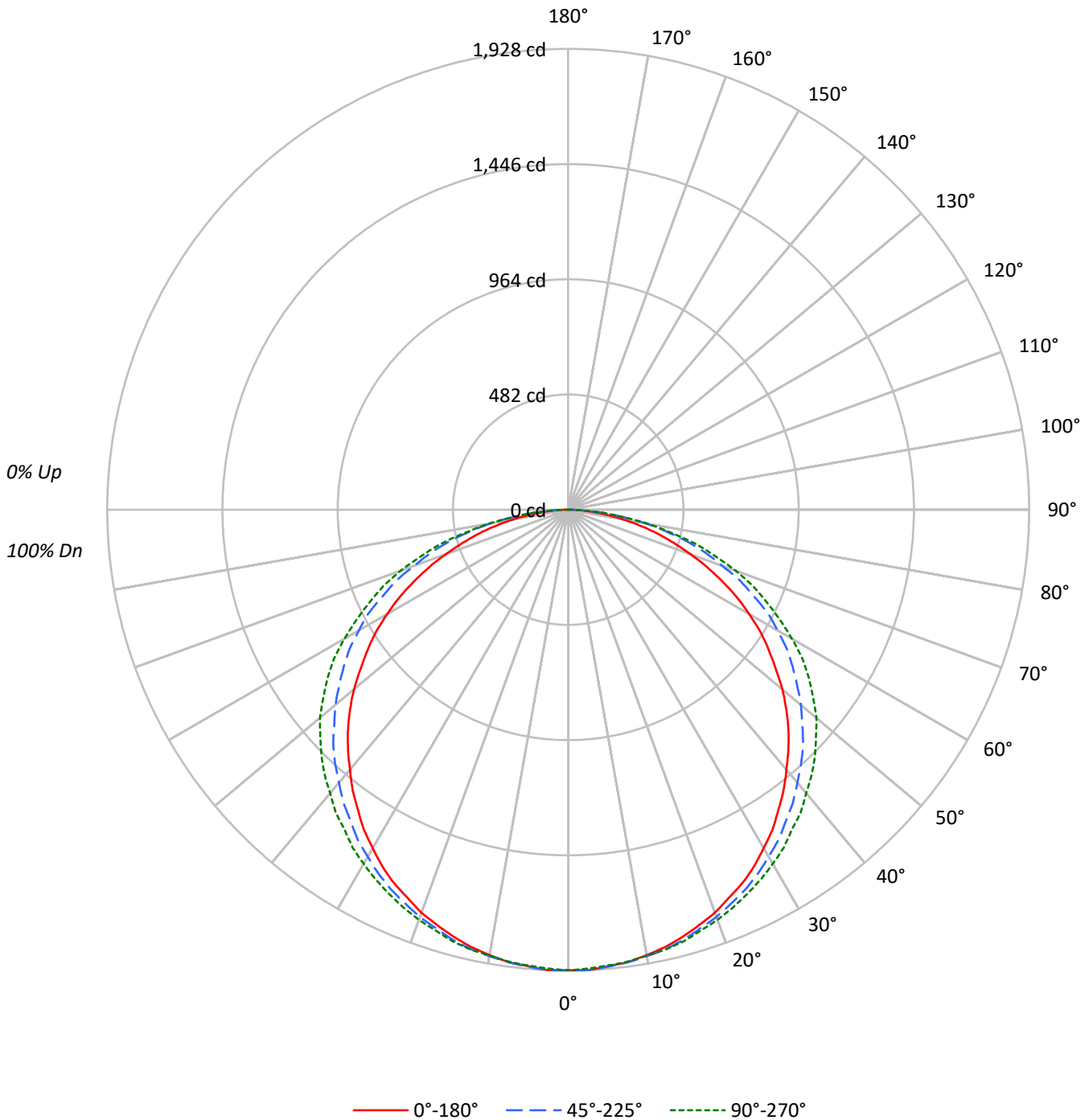
**Summary**

Lumens per Lamp: 2800 (3 lamps)  
Luminaire Lumens: 6100.1 lumens  
Efficiency: 72.6%  
Efficacy: 73.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.43  
Luminous Opening: Rectangular (W 1.93' x L: 3.9' x H: 0')  
CIE Type: Direct

Input Watts (W): 83  
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	86	86	86	86	84	84	84	84	81	81	81	77	77	77	74	74	74	73																			
1	78	75	71	68	76	73	70	67	70	67	65	67	65	63	64	63	61	60																			
2	71	65	59	55	69	63	58	54	61	57	53	58	55	52	56	53	51	49																			
3	64	56	50	45	63	55	49	45	53	48	44	51	47	43	49	45	42	41																			
4	59	50	43	38	57	49	42	38	47	41	37	45	40	37	43	39	36	34																			
5	54	44	37	32	52	43	37	32	42	36	32	40	35	31	39	35	31	30																			
6	50	40	33	28	48	39	33	28	38	32	28	36	31	27	35	31	27	26																			
7	46	36	29	25	45	35	29	25	34	29	24	33	28	24	32	28	24	23																			
8	43	33	26	22	42	32	26	22	31	26	22	30	25	22	29	25	21	20																			
9	40	30	24	20	39	29	24	20	29	23	20	28	23	19	27	23	19	18																			
10	37	28	22	18	36	27	22	18	26	21	18	26	21	18	25	21	17	16																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2759	2759	2759
5°	2755	2758	2751
10°	2751	2758	2754
15°	2742	2762	2770
20°	2734	2762	2782
25°	2724	2769	2801
30°	2703	2773	2829
35°	2680	2776	2853
40°	2654	2787	2895
45°	2638	2815	2954
50°	2606	2831	3018
55°	2556	2861	3068
60°	2506	2895	3096
65°	2416	2900	3103
70°	2282	2863	3115
75°	2141	2860	3043
80°	1921	2721	2795
85°	1594	2284	2316



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	182.5	3.0	2.2	0°	1927	1927	1927	1927	1927	
10°-20°	525.7	8.6	6.3	5°	1917	1923	1919	1918	1914	182
20°-30°	807.6	13.2	9.6	15°	1850	1858	1863	1867	1869	522
30°-40°	995.1	16.3	11.8	25°	1724	1734	1753	1769	1773	794
40°-50°	1068.9	17.5	12.7	35°	1533	1556	1588	1627	1632	960
50°-60°	1017.1	16.7	12.1	45°	1303	1333	1390	1442	1459	1004
60°-70°	829.0	13.6	9.9	55°	1024	1066	1146	1211	1229	916
70°-80°	522.8	8.6	6.2	65°	713	781	856	903	916	705
80°-90°	151.3	2.5	1.8	75°	387	465	517	544	550	408
90°-100°	0.0	0.0	0.0	85°	97	130	139	139	141	111
100°-110°	0.0	0.0	0.0	90°	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°	1515.8	24.8	18.0							
0°-40°	2510.9	41.2	29.9							
0°-60°	4596.9	75.4	54.7							
0°-90°	6100.1	100.0	72.6							
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°	6100.1	100.0	72.6							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1927	1927	1927	1927	1927
2.5°	1928	1932	1928	1924	1921
5°	1917	1923	1919	1918	1914
7.5°	1909	1912	1910	1909	1907
10°	1892	1898	1897	1898	1894
12.5°	1874	1880	1883	1885	1884
15°	1850	1858	1863	1867	1869
17.5°	1822	1832	1837	1847	1846
20°	1794	1803	1813	1825	1826
22.5°	1757	1772	1783	1801	1801
25°	1724	1734	1753	1769	1773
27.5°	1683	1695	1717	1737	1744
30°	1635	1650	1677	1704	1711
32.5°	1589	1606	1637	1667	1677
35°	1533	1556	1588	1627	1632
37.5°	1480	1504	1544	1585	1597
40°	1420	1450	1491	1540	1549
42.5°	1363	1389	1442	1491	1507
45°	1303	1333	1390	1442	1459
47.5°	1237	1271	1327	1391	1406
50°	1170	1205	1271	1333	1355
52.5°	1094	1142	1207	1279	1291
55°	1024	1066	1146	1211	1229
57.5°	954	1000	1084	1144	1162
60°	875	924	1011	1066	1081
62.5°	797	851	944	985	998
65°	713	781	856	903	916
67.5°	630	699	780	819	838
70°	545	625	684	732	744
72.5°	463	542	604	643	644
75°	387	465	517	544	550
77.5°	307	385	419	448	437
80°	233	293	330	339	339
82.5°	158	216	228	243	225
85°	97	130	139	139	141
87.5°	36	51	51	51	50
90°	0	0	0	0	0

(END OF REPORT)