

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: P30349

Luminaire Tested: **2RDIA-328T5RP-UNV-EBT1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30349
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2RDIA-328T5RP-UNV-EBT1
Description: METALUX RDI OVATION SERIES WITH AIR RETURN SLOTS, 2'x 4' RECESSED
DIRECT/INDIRECT, WITH CENTER MOUNT ROUND PERFORATED WHITE STEEL BASKET
ACRYLIC OVERLAY
Light Source: THREE T5 LINEAR FLUORESCENT LAMPS, F28T5 28W - 2900 LUMENS EA
Ballast/Driver: -

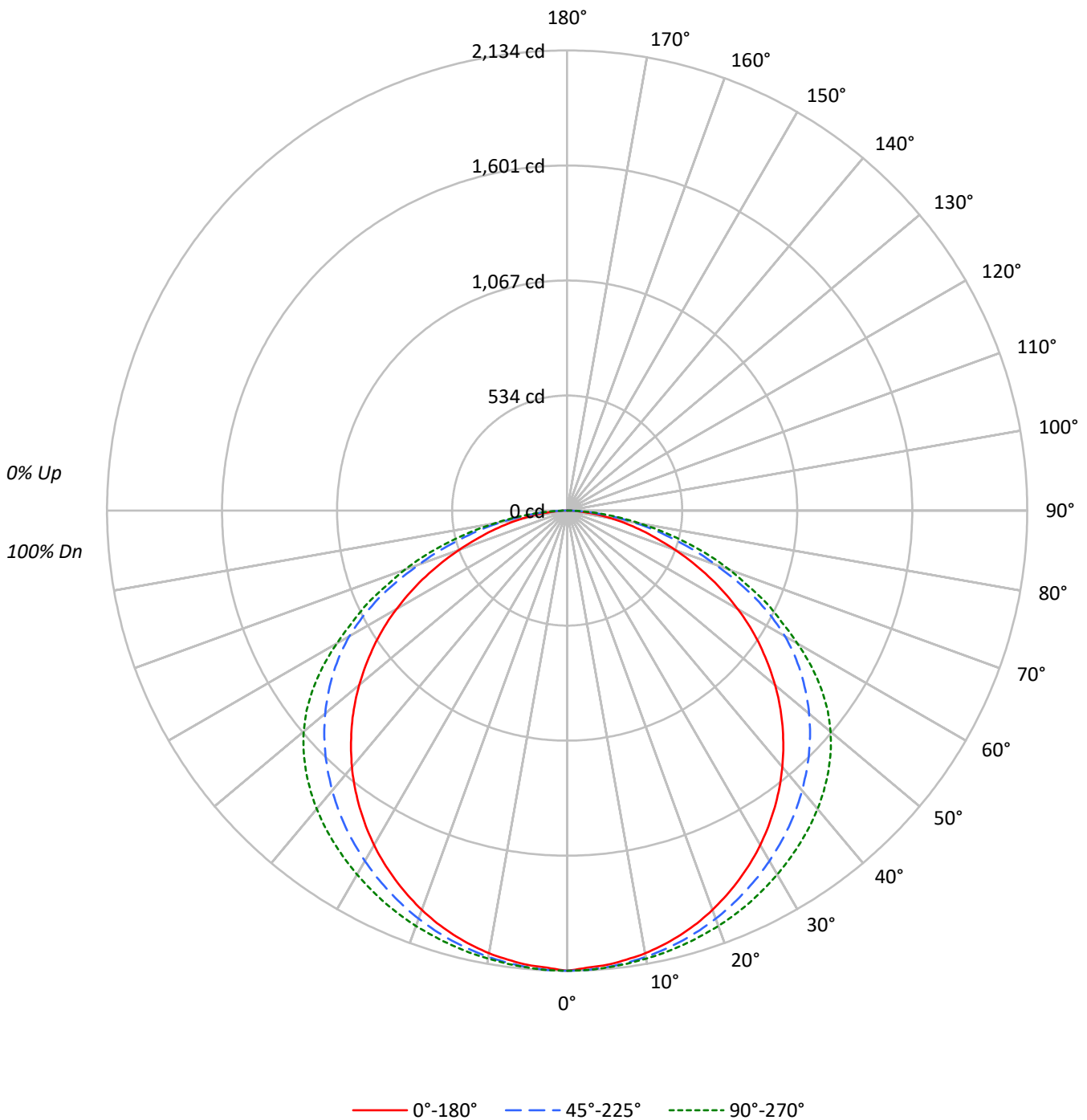
Summary

Lumens per Lamp: 2900 (3 lamps)
Luminaire Lumens: 6756.6 lumens
Efficiency: 77.7%
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.36 / 1.46
Luminous Opening: Rectangular (W 1.71' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 89
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	72	75	72	70		72	70	68		69	68	66	64
2	76	69	64	59	74	68	63	59	65	61	57		63	59	56		60	57	55	53
3	69	61	54	49	67	59	53	48	57	52	47		55	50	47		53	49	46	44
4	63	53	46	41	61	52	46	41	50	45	40		49	44	40		47	43	39	37
5	58	48	40	35	56	47	40	35	45	39	34		43	38	34		42	37	34	32
6	53	43	36	30	52	42	35	30	40	34	30		39	34	30		38	33	29	28
7	49	39	32	27	48	38	31	27	37	31	26		36	30	26		34	30	26	24
8	46	35	28	24	45	35	28	24	34	28	23		33	27	23		32	27	23	22
9	43	32	26	21	42	32	25	21	31	25	21		30	25	21		29	24	21	19
10	40	30	23	19	39	29	23	19	28	23	19		28	23	19		27	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3433	3433	3433
5°	3415	3433	3435
10°	3406	3434	3447
15°	3393	3439	3473
20°	3374	3448	3510
25°	3351	3461	3559
30°	3327	3485	3620
35°	3297	3519	3698
40°	3261	3560	3795
45°	3215	3611	3897
50°	3151	3666	3992
55°	3066	3722	4033
60°	2941	3755	3970
65°	2756	3673	3902
70°	2507	3429	3768
75°	2238	3176	3549
80°	1927	2881	3168
85°	1514	2363	2639



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	201.9	3.0	2.3	0°	2134	2134	2134	2134	2134	
10°-20°	582.7	8.6	6.7	5°	2115	2119	2126	2127	2127	201
20°-30°	899.1	13.3	10.3	15°	2037	2046	2065	2079	2085	575
30°-40°	1118.6	16.6	12.9	25°	1888	1909	1950	1990	2005	870
40°-50°	1215.4	18.0	14.0	35°	1679	1714	1792	1859	1883	1050
50°-60°	1157.8	17.1	13.3	45°	1413	1472	1587	1681	1713	1089
60°-70°	909.4	13.5	10.5	55°	1093	1184	1327	1419	1438	976
70°-80°	529.6	7.8	6.1	65°	724	845	965	997	1025	716
80°-90°	142.0	2.1	1.6	75°	360	468	511	562	571	383
90°-100°	0.0	0.0	0.0	85°	82	104	128	140	143	98
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°	1683.7	24.9	19.4							
0°-40°	2802.4	41.5	32.2							
0°-60°	5175.6	76.6	59.5							
0°-90°	6756.6	100.0	77.7							
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°	6756.6	100.0	77.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2134	2134	2134	2134	2134
2.5°	2122	2127	2132	2132	2133
5°	2115	2119	2126	2127	2127
7.5°	2101	2107	2115	2118	2120
10°	2085	2091	2102	2108	2110
12.5°	2063	2071	2085	2094	2099
15°	2037	2046	2065	2079	2085
17.5°	2006	2017	2041	2060	2068
20°	1971	1985	2014	2039	2050
22.5°	1931	1948	1984	2015	2029
25°	1888	1909	1950	1990	2005
27.5°	1842	1866	1915	1961	1978
30°	1791	1818	1876	1930	1949
32.5°	1737	1767	1835	1895	1917
35°	1679	1714	1792	1859	1883
37.5°	1618	1659	1745	1820	1847
40°	1553	1599	1695	1776	1807
42.5°	1484	1537	1642	1730	1762
45°	1413	1472	1587	1681	1713
47.5°	1338	1404	1528	1626	1658
50°	1259	1334	1465	1566	1595
52.5°	1177	1261	1398	1497	1523
55°	1093	1184	1327	1419	1438
57.5°	1007	1104	1251	1327	1343
60°	914	1020	1167	1226	1234
62.5°	820	933	1071	1113	1123
65°	724	845	965	997	1025
67.5°	627	755	848	900	904
70°	533	662	729	779	801
72.5°	443	567	624	673	689
75°	360	468	511	562	571
77.5°	281	361	411	449	454
80°	208	257	311	339	342
82.5°	141	172	215	235	238
85°	82	104	128	140	143
87.5°	35	46	53	56	57
90°	0	0	0	0	0

(END OF REPORT)