

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: p30269

Luminaire Tested: **2RDIA-228T5RP-UNV-EBT1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: p30269
Test Lab: METALUX RESEARCH LABS
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2RDIA-228T5RP-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: TWO T5 LINEAR FLUORESCENT LAMPS, F28T5 28W - 2600 LUMENS EA
Ballast/Driver: -

Summary

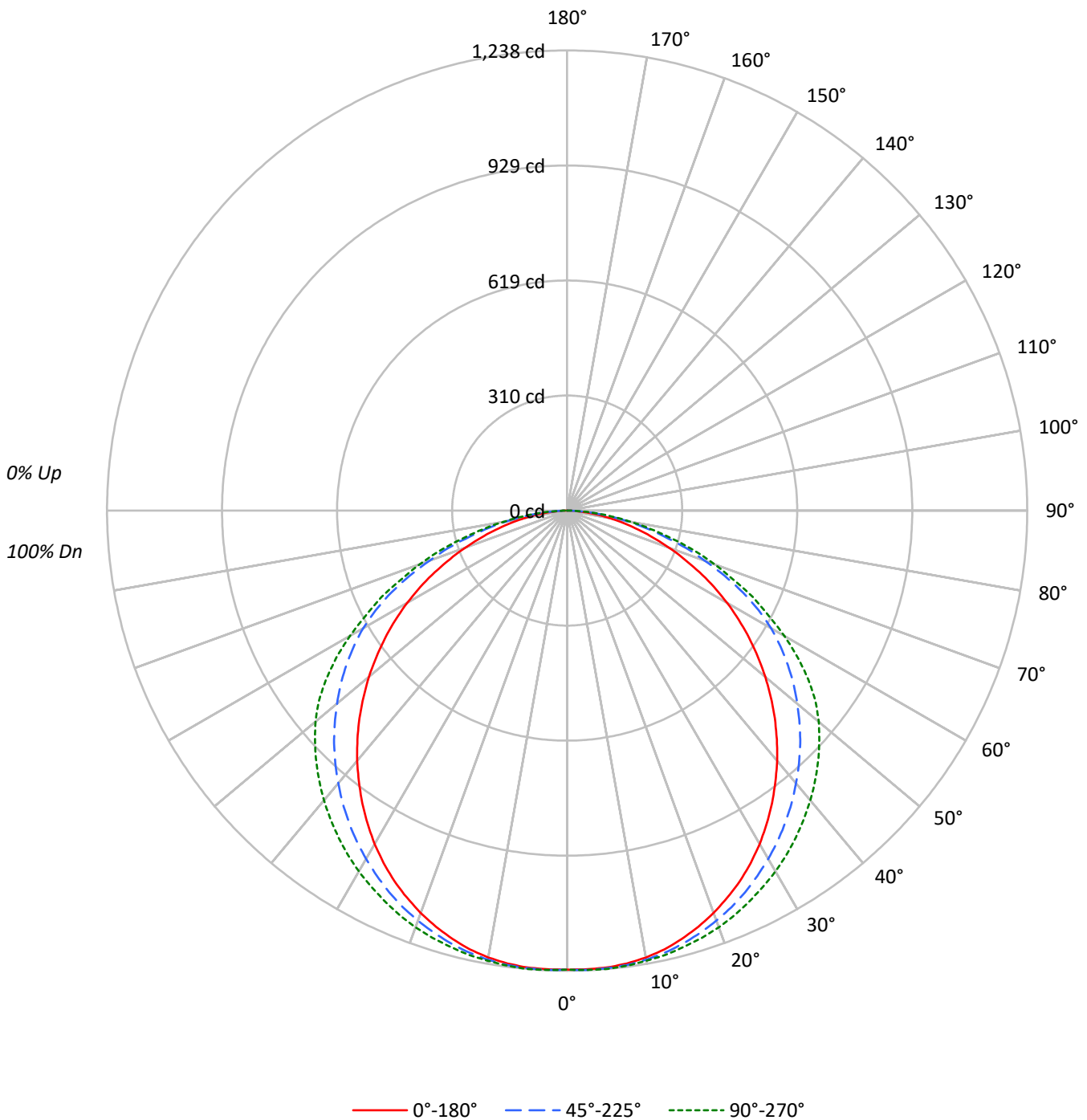
Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3779.1 lumens
Efficiency: 72.7%
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.35 / 1.43
Luminous Opening: Rectangular (W 1.71' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 57.1
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	87	87	87	87	85	85	85	85	81	81	81		77	77	77		74	74	74	73
1	79	75	72	69	77	74	71	68	70	68	66		68	66	64		65	63	62	60
2	71	65	60	56	70	64	59	55	61	57	54		59	56	53		57	54	52	50
3	65	57	51	46	63	56	50	46	54	49	45		52	48	44		50	46	43	42
4	59	50	44	39	58	49	43	39	48	42	38		46	41	38		44	40	37	35
5	55	45	38	33	53	44	38	33	43	37	33		41	36	32		40	35	32	30
6	50	40	34	29	49	40	33	29	38	33	29		37	32	28		36	32	28	27
7	47	37	30	26	45	36	30	25	35	29	25		34	29	25		33	28	25	23
8	43	33	27	23	42	33	27	23	32	26	22		31	26	22		30	26	22	21
9	40	31	24	20	39	30	24	20	29	24	20		28	24	20		28	23	20	19
10	38	28	22	18	37	28	22	18	27	22	18		26	22	18		26	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1987	1987	1987
5°	1993	1996	1999
10°	1995	2004	2009
15°	1987	2009	2024
20°	1972	2010	2042
25°	1953	2011	2059
30°	1924	2010	2082
35°	1887	2011	2107
40°	1846	2012	2138
45°	1797	2018	2173
50°	1742	2022	2212
55°	1677	2033	2221
60°	1599	2040	2172
65°	1496	1987	2101
70°	1369	1853	1985
75°	1231	1684	1821
80°	1075	1510	1612
85°	849	1218	1311



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	117.6	3.1	2.3	0°	1235	1235	1235	1235	1235	
10°-20°	340.2	9.0	6.5	5°	1234	1234	1236	1236	1238	117
20°-30°	521.6	13.8	10.0	15°	1193	1197	1206	1212	1215	337
30°-40°	638.6	16.9	12.3	25°	1100	1110	1133	1153	1160	506
40°-50°	678.5	18.0	13.0	35°	961	981	1024	1060	1073	601
50°-60°	634.9	16.8	12.2	45°	790	823	887	936	955	609
60°-70°	491.8	13.0	9.5	55°	598	648	725	780	792	534
70°-80°	281.8	7.5	5.4	65°	393	457	522	538	552	389
80°-90°	74.0	2.0	1.4	75°	198	256	271	292	293	211
90°-100°	0.0	0.0	0.0	85°	46	57	66	70	71	55
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°	979.4	25.9	18.8							
0°-40°	1618.0	42.8	31.1							
0°-60°	2931.5	77.6	56.4							
0°-90°	3779.1	100.0	72.7							
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°	3779.1	100.0	72.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1235	1235	1235	1235	1235
2.5°	1235	1236	1237	1237	1237
5°	1234	1234	1236	1236	1238
7.5°	1229	1231	1233	1234	1235
10°	1221	1223	1227	1229	1230
12.5°	1209	1211	1218	1221	1224
15°	1193	1197	1206	1212	1215
17.5°	1174	1179	1191	1200	1205
20°	1152	1159	1174	1187	1193
22.5°	1127	1136	1155	1171	1178
25°	1100	1110	1133	1153	1160
27.5°	1069	1081	1108	1133	1141
30°	1036	1050	1082	1110	1121
32.5°	999	1017	1054	1087	1098
35°	961	981	1024	1060	1073
37.5°	920	943	992	1032	1046
40°	879	904	958	1001	1018
42.5°	835	864	923	969	987
45°	790	823	887	936	955
47.5°	743	780	848	901	920
50°	696	737	808	865	884
52.5°	647	693	768	826	842
55°	598	648	725	780	792
57.5°	548	602	681	727	736
60°	497	554	634	668	675
62.5°	445	505	581	605	610
65°	393	457	522	538	552
67.5°	341	407	459	483	482
70°	291	358	394	413	422
72.5°	243	308	336	355	359
75°	198	256	271	292	293
77.5°	155	198	217	231	232
80°	116	141	163	173	174
82.5°	79	93	112	118	120
85°	46	57	66	70	71
87.5°	19	25	27	28	28
90°	0	0	0	0	0

(END OF REPORT)