

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: 223P145

Luminaire Tested: **2RDI-232T8RP-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 223P145
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2RDI-232T8RP-UNV-EB81
Description: 2'X4' RECESSED DIRECT/INDIRECT LUMINAIRE WITH CENTER MOUNTED
ROUND PERFORATED WHITE STEEL BASKET, ACRYLIC OVERLAY, TALL LAMP SOCKETS,
MATTE WHITE PAINTED BALLAST CHANNEL COVERS
Light Source: TWO - SYLVANIA- F032/830/XP3 - 3100 LUMENS - 32 WATTS
Ballast/Driver: GE-232-ULTRAMAX H

Summary

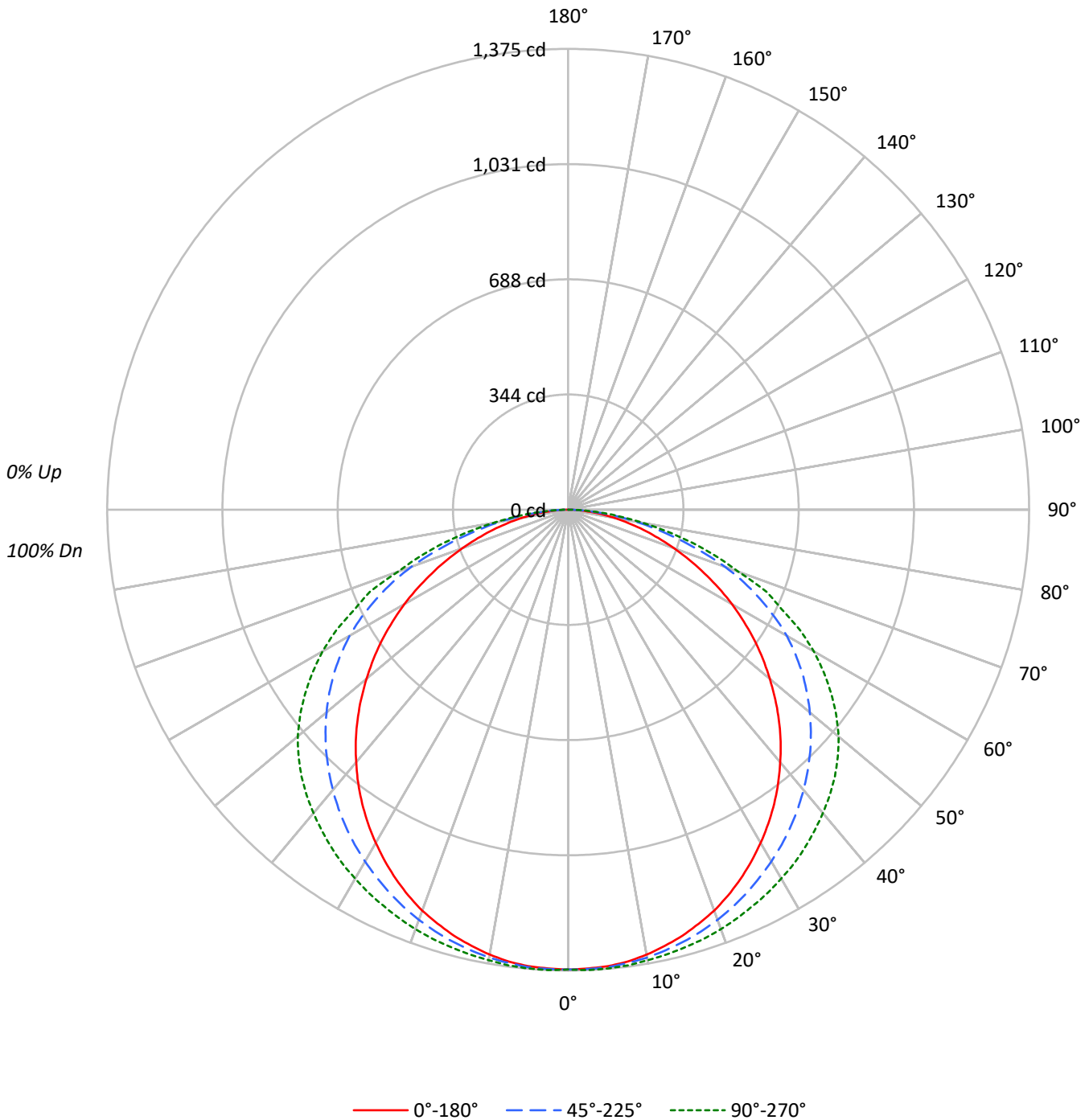
Lumens per Lamp: 3100 (2 lamps)
Luminaire Lumens: 4383.9 lumens
Efficiency: 70.7%
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.38 / 1.46
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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	84	84	84	84	82	82	82	82	79	79	79	75	75	75	72	72	72	71
1	77	73	70	67	75	71	68	66	68	66	64	66	64	62	63	61	60	58
2	69	63	58	54	67	62	57	53	59	55	52	57	54	51	55	52	50	48
3	63	55	49	44	61	54	48	44	52	47	43	50	46	42	48	45	42	40
4	57	49	42	37	56	48	42	37	46	41	36	44	40	36	43	39	35	34
5	53	43	37	32	51	42	36	32	41	35	31	39	35	31	38	34	31	29
6	48	39	32	28	47	38	32	27	37	31	27	36	31	27	34	30	27	25
7	45	35	29	24	44	34	28	24	33	28	24	32	27	24	31	27	24	22
8	42	32	26	21	41	31	25	21	30	25	21	30	25	21	29	24	21	20
9	39	29	23	19	38	29	23	19	28	23	19	27	22	19	26	22	19	18
10	36	27	21	17	36	27	21	17	26	21	17	25	20	17	24	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1967	1967	1967
5°	1968	1972	1978
10°	1963	1976	1987
15°	1954	1980	2005
20°	1942	1987	2032
25°	1924	1995	2063
30°	1901	2007	2104
35°	1875	2023	2155
40°	1842	2044	2212
45°	1803	2070	2281
50°	1751	2099	2349
55°	1695	2132	2395
60°	1617	2159	2426
65°	1520	2144	2382
70°	1404	2088	2260
75°	1285	1895	2127
80°	1148	1693	1883
85°	954	1398	1546



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	130.3	3.0	2.1	0°	1372	1372	1372	1372	1372	
10°-20°	376.7	8.6	6.1	5°	1367	1366	1370	1372	1374	130
20°-30°	581.5	13.3	9.4	15°	1316	1320	1334	1347	1351	371
30°-40°	722.1	16.5	11.6	25°	1216	1228	1261	1293	1304	560
40°-50°	782.0	17.8	12.6	35°	1071	1096	1156	1211	1231	670
50°-60°	746.4	17.0	12.0	45°	889	932	1021	1095	1125	685
60°-70°	598.9	13.7	9.7	55°	678	742	853	933	958	605
70°-80°	351.3	8.0	5.7	65°	448	532	632	687	702	444
80°-90°	94.5	2.2	1.5	75°	232	306	342	374	384	247
90°-100°	0.0	0.0	0.0	85°	58	69	85	92	94	68
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°	1088.6	24.8	17.6							
0°-40°	1810.7	41.3	29.2							
0°-60°	3339.1	76.2	53.9							
0°-90°	4383.9	100.0	70.7							
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°	4383.9	100.0	70.7							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1372	1372	1372	1372	1372
2.5°	1370	1370	1372	1374	1375
5°	1367	1366	1370	1372	1374
7.5°	1360	1359	1364	1369	1371
10°	1348	1349	1357	1363	1365
12.5°	1333	1336	1346	1356	1359
15°	1316	1320	1334	1347	1351
17.5°	1295	1301	1319	1336	1343
20°	1273	1279	1302	1323	1332
22.5°	1246	1255	1283	1309	1319
25°	1216	1228	1261	1293	1304
27.5°	1183	1199	1237	1275	1289
30°	1148	1167	1212	1255	1271
32.5°	1111	1132	1185	1234	1253
35°	1071	1096	1156	1211	1231
37.5°	1029	1058	1125	1185	1207
40°	984	1018	1092	1158	1182
42.5°	938	976	1057	1127	1155
45°	889	932	1021	1095	1125
47.5°	838	886	982	1060	1091
50°	785	840	941	1023	1053
52.5°	732	791	898	981	1008
55°	678	742	853	933	958
57.5°	621	691	804	878	904
60°	564	639	753	820	846
62.5°	506	586	695	758	780
65°	448	532	632	687	702
67.5°	391	477	568	608	640
70°	335	422	498	533	539
72.5°	282	365	419	447	464
75°	232	306	342	374	384
77.5°	184	243	270	299	303
80°	139	178	205	224	228
82.5°	97	113	142	154	157
85°	58	69	85	92	94
87.5°	25	31	36	38	39
90°	0	0	0	0	0

(END OF REPORT)