

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: 236p182

Luminaire Tested: **I8-232-G-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 236p182
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: I8-232-G-UNV-EB81
Description: I8 SERIES LUMINAIRE WITH HIGH REFLECTANCE WHITE WIDE
DISTRIBUTION REFLECTOR
Light Source: TWO 32 WATTS T8 - 2800 LUMENS EA - SYLVANIA - F032/735
Ballast/Driver: ULTRAMAX GE-232-MAX-N/ULTRA

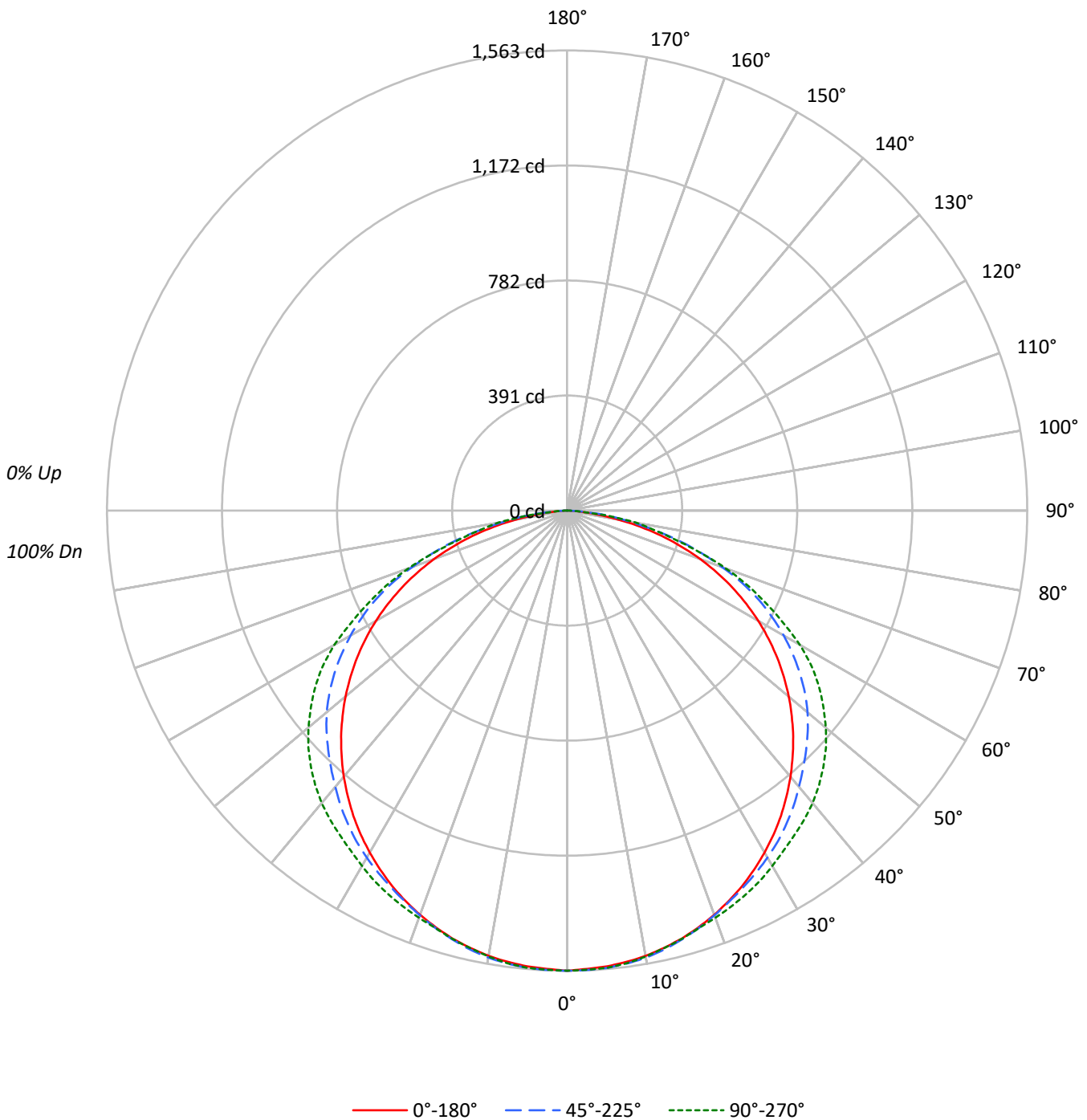
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 4950.8 lumens
Efficiency: 88.4%
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.33 / 1.45
Luminous Opening: Rectangular (W 0.84' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 54
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	105	105	105	105	103	103	103	103	98	98	98	94	94	94	90	90	90	88
1	96	91	87	84	93	89	86	83	86	83	80	82	80	77	79	77	75	73
2	87	79	73	68	84	77	72	67	74	69	65	71	67	64	69	65	62	60
3	79	69	61	56	76	68	61	55	65	59	54	62	57	53	60	56	52	50
4	72	61	53	47	70	60	52	46	57	51	46	55	50	45	53	48	44	42
5	66	54	46	40	64	53	45	40	51	44	39	49	43	39	48	42	38	36
6	61	48	40	34	59	48	40	34	46	39	34	45	38	34	43	38	33	32
7	56	44	36	30	55	43	36	30	42	35	30	40	34	30	39	34	29	28
8	52	40	32	27	51	39	32	27	38	31	27	37	31	26	36	30	26	25
9	49	37	29	24	47	36	29	24	35	28	24	34	28	24	33	28	24	22
10	46	34	27	22	44	33	26	22	32	26	22	31	26	21	31	25	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4985	4985	4985
5°	4975	4991	4991
10°	4974	4994	4981
15°	4969	4979	4973
20°	4959	4965	4996
25°	4951	4972	5060
30°	4938	5012	5134
35°	4929	5058	5241
40°	4913	5100	5400
45°	4898	5178	5552
50°	4877	5289	5691
55°	4843	5371	5811
60°	4784	5422	5830
65°	4679	5434	5630
70°	4485	5213	5343
75°	4091	4818	4658
80°	3288	3930	4371
85°	1574	2635	1866



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	148.1	3.0	2.6	0°	1563	1563	1563	1563	1563	
10°-20°	425.8	8.6	7.6	5°	1554	1556	1559	1561	1559	148
20°-30°	654.9	13.2	11.7	15°	1505	1508	1508	1509	1506	425
30°-40°	814.5	16.5	14.5	25°	1407	1408	1413	1434	1438	648
40°-50°	888.3	17.9	15.9	35°	1266	1263	1299	1333	1346	792
50°-60°	852.9	17.2	15.2	45°	1086	1086	1148	1213	1231	838
60°-70°	684.1	13.8	12.2	55°	871	874	966	1025	1045	778
70°-80°	392.7	7.9	7.0	65°	620	629	720	743	746	612
80°-90°	89.5	1.8	1.6	75°	332	351	391	383	378	349
90°-100°	0.0	0.0	0.0	85°	43	69	72	56	51	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°	1228.9	24.8	21.9							
0°-40°	2043.4	41.3	36.5							
0°-60°	3784.6	76.4	67.6							
0°-90°	4950.8	100.0	88.4							
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°	4950.8	100.0	88.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563	1563	1563	1563	1563
2.5°	1558	1559	1562	1562	1561
5°	1554	1556	1559	1561	1559
7.5°	1546	1548	1552	1553	1551
10°	1536	1539	1542	1542	1538
12.5°	1521	1525	1527	1527	1522
15°	1505	1508	1508	1509	1506
17.5°	1484	1488	1487	1490	1487
20°	1461	1464	1463	1471	1472
22.5°	1435	1437	1438	1454	1456
25°	1407	1408	1413	1434	1438
27.5°	1375	1376	1388	1413	1418
30°	1341	1341	1361	1389	1394
32.5°	1305	1304	1332	1361	1369
35°	1266	1263	1299	1333	1346
37.5°	1224	1220	1264	1306	1323
40°	1180	1177	1225	1279	1297
42.5°	1134	1132	1187	1248	1266
45°	1086	1086	1148	1213	1231
47.5°	1035	1038	1109	1173	1192
50°	983	986	1066	1129	1147
52.5°	928	932	1018	1078	1097
55°	871	874	966	1025	1045
57.5°	812	814	909	968	985
60°	750	753	850	905	914
62.5°	686	691	786	826	829
65°	620	629	720	743	746
67.5°	551	562	644	660	665
70°	481	492	559	576	573
72.5°	406	420	476	481	473
75°	332	351	391	383	378
77.5°	255	280	299	297	299
80°	179	207	214	233	238
82.5°	105	133	151	155	144
85°	43	69	72	56	51
87.5°	12	20	21	21	20
90°	0	0	0	0	0

(END OF REPORT)