

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: 236P191C

Luminaire Tested: **I8-332-G-TBW-UNV-EB81-UPL**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 236P191C
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: I8-332-G-TBW-UNV-EB81-UPL
Description: I8 SERIES LUMINAIRE WITH HIGH REFLECTANCE WHITE WIDE
DISTRIBUTION REFLECTOR, UPLIGHT, AND THIN WHITE LOUVER
Light Source: THREE 32-WATT T8 LAMPS - 3000 LUMENS EA - PHILIPS - F32T8/TL835
Ballast/Driver: GE PROLINE GE-332-MV-N

Summary

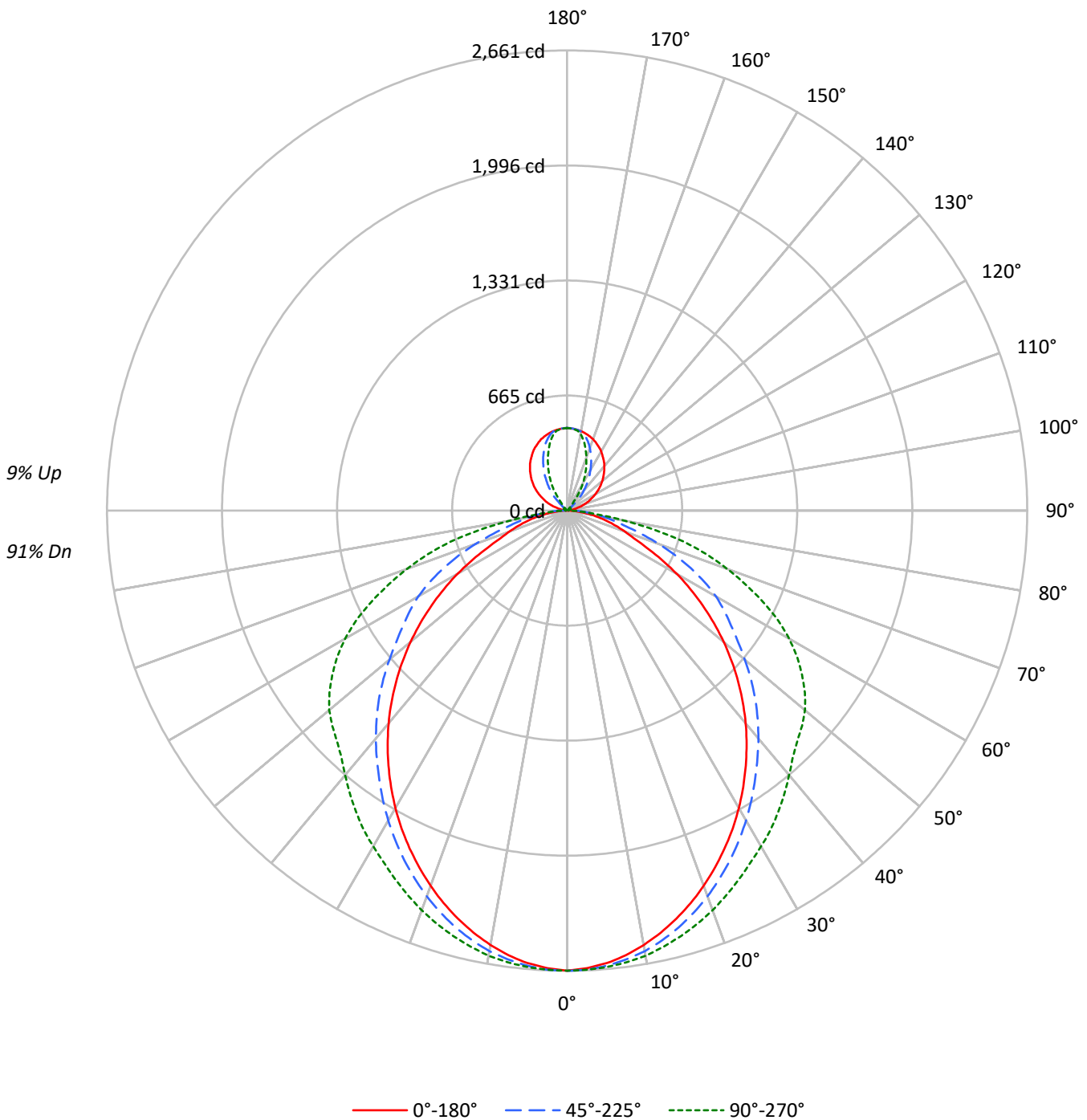
Lumens per Lamp: 3000 (3 lamps)
Luminaire Lumens: 7562.2 lumens
Efficiency: 84.0%
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.26 / 1.29
Luminous Opening: Rectangular (W 0.84' x L: 4.08' x H: 0')
CIE Type: Direct

Input Watts (W): 92
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	98	98	98	98	95	95	95	95	89	89	89	84	84	84	79	79	79	77
1	90	86	82	79	87	83	80	77	78	76	74	74	72	70	70	68	67	64
2	82	75	69	65	79	73	68	63	69	64	61	65	61	58	61	59	56	54
3	75	66	59	54	72	64	58	53	61	55	51	57	53	49	54	51	48	46
4	68	59	51	46	66	57	50	45	54	48	44	51	46	42	49	44	41	39
5	63	52	45	40	61	51	44	39	48	42	38	46	41	37	44	39	36	34
6	58	47	40	35	56	46	39	34	44	38	33	42	36	32	40	35	32	30
7	54	43	36	31	52	42	35	30	40	34	29	38	33	29	36	32	28	26
8	50	39	32	27	48	38	32	27	36	31	26	35	30	26	33	29	25	24
9	47	36	29	25	45	35	29	24	34	28	24	32	27	23	31	26	23	21
10	44	33	27	22	43	32	26	22	31	25	22	30	25	21	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8314	8314	8314
5°	8239	8286	8308
10°	8093	8207	8293
15°	7898	8070	8238
20°	7677	7893	8176
25°	7429	7687	8108
30°	7165	7464	8092
35°	6869	7227	8116
40°	6550	7019	8145
45°	6181	6795	8320
50°	5745	6523	8729
55°	5213	6302	9031
60°	4568	6211	9266
65°	3733	5833	9241
70°	3252	5152	8998
75°	2957	4237	8474
80°	2681	3994	6117
85°	2222	4015	3370



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	250.3	3.3	2.8	0°	2661	2661	2661	2661	2661	
10°-20°	703.0	9.3	7.8	5°	2627	2632	2642	2652	2649	248
20°-30°	1032.8	13.7	11.5	15°	2442	2459	2495	2534	2547	688
30°-40°	1207.1	16.0	13.4	25°	2155	2179	2230	2308	2352	992
40°-50°	1221.5	16.2	13.6	35°	1801	1821	1895	2039	2128	1126
50°-60°	1097.1	14.5	12.2	45°	1399	1414	1538	1730	1883	1077
60°-70°	811.4	10.7	9.0	55°	957	977	1157	1469	1658	855
70°-80°	442.4	5.9	4.9	65°	505	552	789	1064	1250	514
80°-90°	126.4	1.7	1.4	75°	245	272	351	583	702	261
90°-100°	12.3	0.2	0.1	85°	62	79	112	136	94	69
100°-110°	17.3	0.2	0.2	90°	3	21	49	72	15	5
110°-120°	35.6	0.5	0.4	95°	12	5	6	7	6	15
120°-130°	59.4	0.8	0.7	105°	66	8	10	9	8	72
130°-140°	90.7	1.2	1.0	115°	146	20	17	20	19	145
140°-150°	136.9	1.8	1.5	125°	227	115	9	12	18	203
150°-160°	153.2	2.0	1.7	135°	300	213	73	17	10	232
160°-170°	119.8	1.6	1.3	145°	365	311	208	137	95	228
170°-180°	44.8	0.6	0.5	155°	417	399	328	275	255	193
0°-30°	1986.2	26.3	22.1	165°	454	452	432	407	394	128
0°-40°	3193.3	42.2	35.5	175°	474	474	474	475	472	45
0°-60°	5511.9	72.9	61.2	180°	478	478	478	478	478	
0°-90°	6892.2	91.1	76.6							
90°-120°	65.2	0.9	0.7							
90°-150°	352.2	4.7	3.9							
90°-180°	670.0	8.9	7.4							
0°-180°	7562.2	100.0	84.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2661	2661	2661	2661	2661
2.5°	2648	2652	2658	2662	2657
5°	2627	2632	2642	2652	2649
7.5°	2594	2602	2618	2634	2635
10°	2551	2563	2587	2610	2614
12.5°	2500	2514	2545	2574	2582
15°	2442	2459	2495	2534	2547
17.5°	2379	2399	2437	2484	2505
20°	2309	2331	2374	2432	2459
22.5°	2234	2257	2303	2372	2407
25°	2155	2179	2230	2308	2352
27.5°	2073	2096	2151	2240	2295
30°	1986	2008	2069	2173	2243
32.5°	1895	1916	1983	2108	2189
35°	1801	1821	1895	2039	2128
37.5°	1705	1722	1808	1966	2064
40°	1606	1623	1721	1890	1997
42.5°	1504	1519	1630	1808	1932
45°	1399	1414	1538	1730	1883
47.5°	1291	1305	1441	1666	1842
50°	1182	1196	1342	1609	1796
52.5°	1070	1087	1245	1547	1733
55°	957	977	1157	1469	1658
57.5°	845	871	1077	1379	1577
60°	731	766	994	1283	1483
62.5°	616	659	896	1175	1376
65°	505	552	789	1064	1250
67.5°	416	452	677	936	1116
70°	356	375	564	810	985
72.5°	298	322	449	692	851
75°	245	272	351	583	702
77.5°	196	218	278	453	518
80°	149	169	222	325	340
82.5°	104	120	162	214	183
85°	62	79	112	136	94
87.5°	24	43	75	102	52
90°	3	21	49	72	15
92.5°	6	5	7	7	6
95°	12	5	6	7	6
97.5°	22	6	6	6	6
100°	36	7	7	6	6
102.5°	49	9	8	7	7
105°	66	8	10	9	8
107.5°	86	7	13	10	10
110°	105	8	16	13	12



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	127	12	19	18	16
115°	146	20	17	20	19
117.5°	167	36	10	23	23
120°	188	66	9	28	26
122.5°	207	91	8	19	29
125°	227	115	9	12	18
127.5°	247	140	16	10	12
130°	265	164	27	9	10
132.5°	283	189	42	10	9
135°	300	213	73	17	10
137.5°	318	239	119	31	19
140°	334	263	148	47	33
142.5°	351	287	178	85	49
145°	365	311	208	137	95
147.5°	379	335	238	171	147
150°	394	359	269	205	182
152.5°	407	380	299	242	219
155°	417	399	328	275	255
157.5°	429	416	357	309	290
160°	439	431	384	342	325
162.5°	447	443	410	375	360
165°	454	452	432	407	394
167.5°	461	459	451	434	424
170°	466	466	464	456	449
172.5°	470	470	470	469	466
175°	474	474	474	475	472
177.5°	475	476	477	478	476
180°	478	478	478	478	478

(END OF REPORT)