

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: 236P189C

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 236P189C
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: I8-332-TBW-UNV-EB81-UPL
Description: I8 SERIES LUMINAIRE WITH SPECULAR ALUMINUM MEDIUM
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-432-MV-N

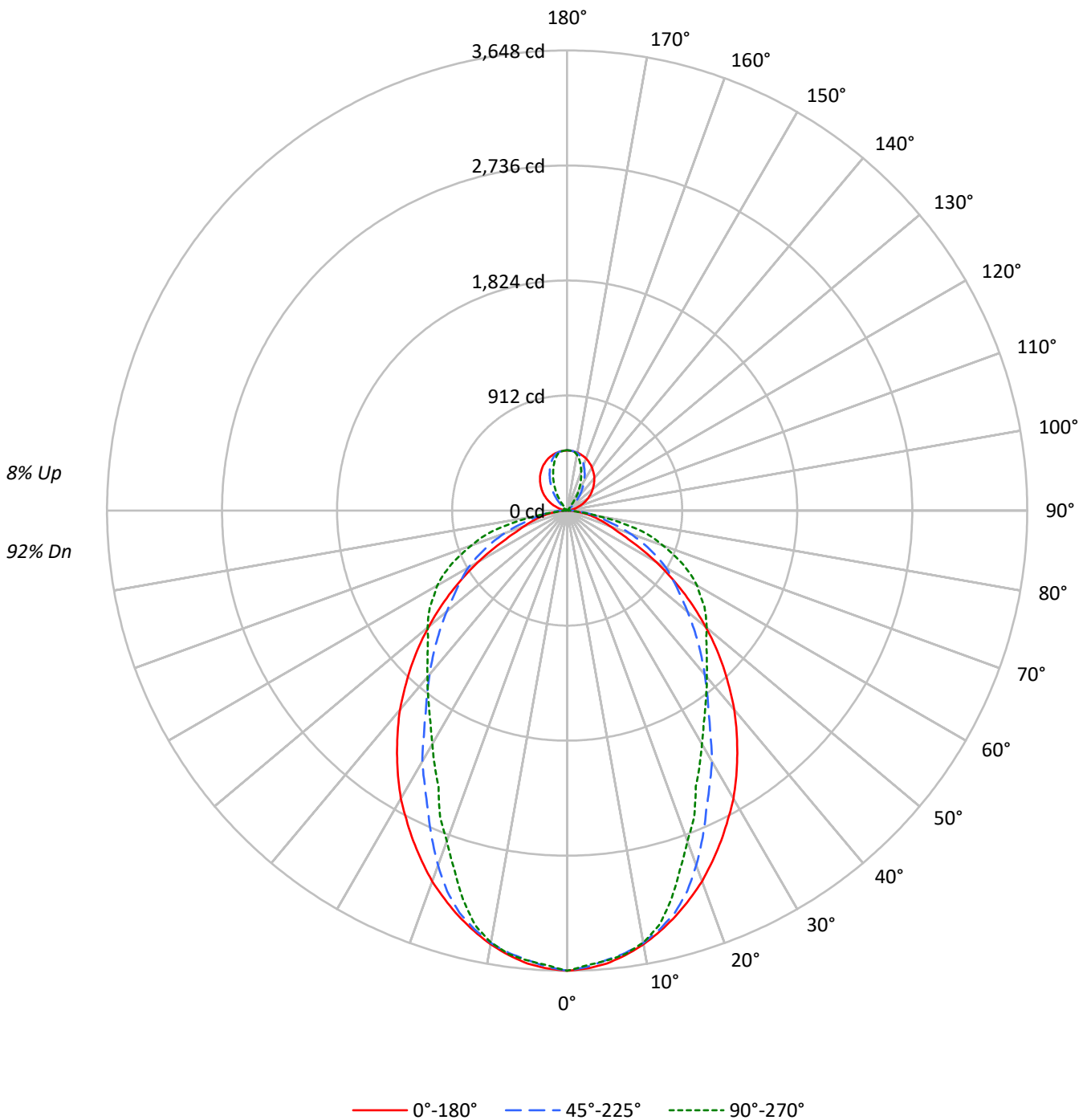
Summary

Lumens per Lamp: 3000 (3 lamps)
Luminaire Lumens: 7887.7 lumens
Efficiency: 87.6%
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 0.92 / 1.08
Luminous Opening: Rectangular (W 0.84' x L: 4' 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

TEST NUMBER: 236P189C
CATALOG NUMBER: I8-332-TBW-UNV-EB81-UPL

Luminous Intensity Polar Plot





TEST NUMBER: 236P189C

CATALOG NUMBER: I8-332-TBW-UNV-EB81-UPL

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	103	103	103	103	99	99	99	99	93	93	93	88	88	88	83	83	83	80
1	94	90	87	84	91	88	85	82	83	80	78	78	76	74	74	72	71	68
2	86	80	74	69	83	77	72	68	73	69	65	69	66	63	66	63	60	58
3	79	71	64	59	76	69	63	58	65	60	56	62	57	54	59	55	52	50
4	73	63	56	50	70	62	55	50	58	53	48	56	51	47	53	49	45	43
5	67	57	49	44	65	55	49	43	53	47	42	50	45	41	48	44	40	38
6	63	52	44	39	60	50	43	38	48	42	38	46	41	37	44	39	36	34
7	58	47	40	35	56	46	39	34	44	38	34	42	37	33	40	36	32	30
8	54	43	36	31	53	42	36	31	41	35	30	39	34	30	37	33	29	27
9	51	40	33	28	49	39	33	28	38	32	28	36	31	27	35	30	27	25
10	48	37	30	26	46	36	30	26	35	29	25	34	28	25	32	28	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11635	11635	11635
5°	11541	11452	11465
10°	11306	11270	11260
15°	10985	10896	10533
20°	10616	10155	9462
25°	10163	9192	8495
30°	9708	8459	7870
35°	9153	7612	7433
40°	8585	7065	7173
45°	7889	6599	7050
50°	7105	6182	7165
55°	6211	5894	7384
60°	5192	5766	7584
65°	4030	5418	7667
70°	3394	4933	7516
75°	3068	4165	7258
80°	2792	4041	4683
85°	2342	4062	1537



TEST NUMBER: 236P189C

CATALOG NUMBER: I8-332-TBW-UNV-EB81-UPL

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	339.0	4.3	3.8	0°	3648	3648	3648	3648	3648	
10°-20°	915.2	11.6	10.2	5°	3605	3589	3577	3582	3581	340
20°-30°	1220.6	15.5	13.6	15°	3327	3304	3300	3234	3190	936
30°-40°	1287.5	16.3	14.3	25°	2888	2850	2612	2493	2414	1329
40°-50°	1196.3	15.2	13.3	35°	2351	2227	1955	1906	1909	1470
50°-60°	1005.5	12.7	11.2	45°	1749	1555	1463	1518	1563	1347
60°-70°	727.9	9.2	8.1	55°	1117	977	1060	1233	1328	999
70°-80°	408.8	5.2	4.5	65°	534	535	718	911	1016	549
80°-90°	116.9	1.5	1.3	75°	249	271	338	539	589	266
90°-100°	12.3	0.2	0.1	85°	64	81	111	117	42	71
100°-110°	17.3	0.2	0.2	90°	3	22	49	71	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	1.7	1.5	125°	227	115	9	12	18	203
150°-160°	153.2	1.9	1.7	135°	300	213	73	17	10	232
160°-170°	119.8	1.5	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°	2474.8	31.4	27.5	165°	454	452	432	407	394	128
0°-40°	3762.3	47.7	41.8	175°	474	474	474	475	472	45
0°-60°	5964.1	75.6	66.3	180°	478	478	478	478	478	
0°-90°	7217.7	91.5	80.2							
90°-120°	65.2	0.8	0.7							
90°-150°	352.2	4.5	3.9							
90°-180°	670.0	8.5	7.4							
0°-180°	7887.7	100.0	87.6							



TEST NUMBER: 236P189C

CATALOG NUMBER: I8-332-TBW-UNV-EB81-UPL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3648	3648	3648	3648	3648
2.5°	3634	3631	3621	3615	3608
5°	3605	3589	3577	3582	3581
7.5°	3555	3529	3538	3546	3546
10°	3491	3464	3480	3479	3477
12.5°	3414	3389	3398	3394	3368
15°	3327	3304	3300	3234	3190
17.5°	3230	3207	3164	3041	2980
20°	3128	3101	2992	2829	2788
22.5°	3009	2981	2806	2668	2630
25°	2888	2850	2612	2493	2414
27.5°	2761	2710	2446	2293	2275
30°	2636	2560	2297	2157	2137
32.5°	2496	2398	2114	2026	2013
35°	2351	2227	1955	1906	1909
37.5°	2207	2042	1822	1802	1813
40°	2062	1867	1697	1702	1723
42.5°	1903	1710	1577	1606	1639
45°	1749	1555	1463	1518	1563
47.5°	1593	1401	1351	1435	1495
50°	1432	1252	1246	1365	1444
52.5°	1275	1107	1147	1301	1387
55°	1117	977	1060	1233	1328
57.5°	963	856	982	1159	1249
60°	814	744	904	1072	1189
62.5°	669	636	813	995	1109
65°	534	535	718	911	1016
67.5°	431	441	625	809	908
70°	364	371	529	707	806
72.5°	304	321	430	616	713
75°	249	271	338	539	589
77.5°	199	219	272	417	418
80°	152	170	220	300	255
82.5°	107	122	161	194	109
85°	64	81	111	117	42
87.5°	26	45	75	96	39
90°	3	22	49	71	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



TEST NUMBER: 236P189C

CATALOG NUMBER: I8-332-TBW-UNV-EB81-UPL

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)