

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: 236P185

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

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 236P185
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
Description: I8 SERIES LUMINAIRE WITH SPECULAR ALUMINUM MEDIUM
DISTRIBUTION REFLECTOR AND THIN WHITE BLADE LOUVER
Light Source: THREE 32-WATT T8 LAMPS - 3000 LUMENS EA - PHILIPS - F32T8/TL835
Ballast/Driver: GE PROLINE GE-432-MV-N

Summary

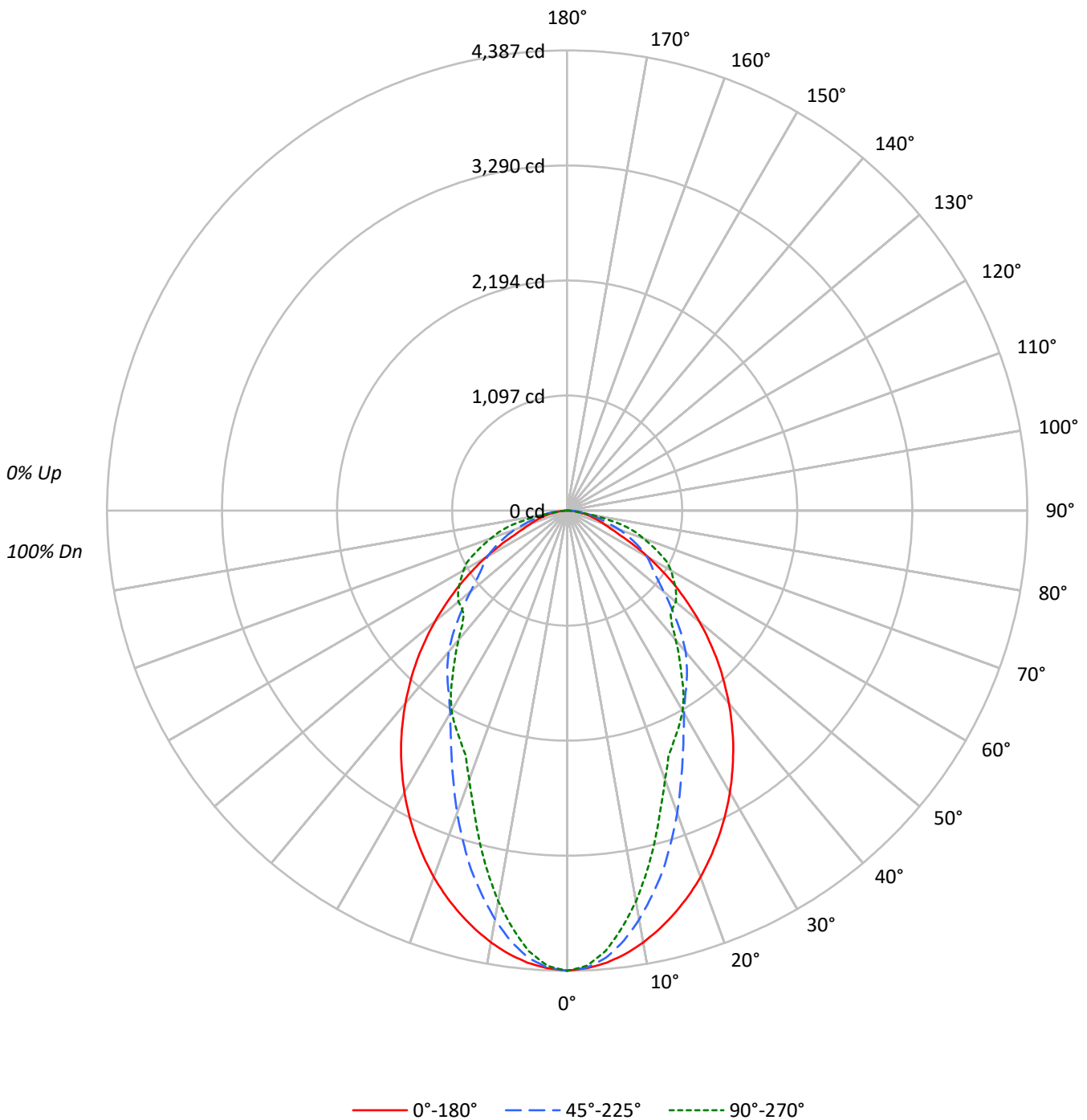
Lumens per Lamp: 3000 (3 lamps)
Luminaire Lumens: 7422.5 lumens
Efficiency: 82.5%
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 0.75 / 0.99
Luminous Opening: Rectangular (W 0.84' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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	96	96	96	96	92	92	92		88	88	88		84	84	84	82
1	90	87	84	81	88	85	82	79	82	79	77		78	76	75		75	74	72	71
2	83	77	72	67	81	75	71	67	72	68	65		70	66	64		67	65	62	60
3	76	68	62	57	74	67	61	57	65	60	56		62	58	55		60	57	54	52
4	71	61	55	49	69	60	54	49	58	53	48		56	52	48		55	51	47	46
5	65	55	49	43	64	55	48	43	53	47	43		51	46	42		50	45	42	40
6	61	50	44	39	59	50	43	38	48	42	38		47	42	38		46	41	37	36
7	57	46	39	35	55	46	39	35	44	39	34		43	38	34		42	37	34	32
8	53	43	36	31	52	42	36	31	41	35	31		40	35	31		39	34	31	29
9	50	39	33	29	49	39	33	29	38	32	28		37	32	28		36	32	28	27
10	47	37	30	26	46	36	30	26	35	30	26		35	30	26		34	29	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13991	13991	13991
5°	13853	13693	13494
10°	13537	12815	12245
15°	13112	11688	10711
20°	12619	10406	9255
25°	12046	9171	8495
30°	11427	8205	8117
35°	10750	7736	7394
40°	9988	7323	6711
45°	9143	6639	6283
50°	8167	5969	6713
55°	7039	5588	6995
60°	5741	5607	7278
65°	4226	5335	7373
70°	3497	4933	7208
75°	3142	4165	6962
80°	2810	4041	4371
85°	2305	4025	1171



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	398.0	5.4	4.4	0°	4387	4387	4387	4387	4387	
10°-20°	998.5	13.5	11.1	5°	4327	4315	4277	4233	4215	408
20°-30°	1272.5	17.1	14.1	15°	3971	3821	3540	3324	3244	1117
30°-40°	1333.3	18.0	14.8	25°	3423	3082	2606	2417	2414	1574
40°-50°	1189.2	16.0	13.2	35°	2761	2280	1987	1952	1899	1723
50°-60°	996.3	13.4	11.1	45°	2027	1542	1472	1390	1393	1560
60°-70°	722.1	9.7	8.0	55°	1266	1007	1005	1179	1258	1131
70°-80°	404.0	5.4	4.5	65°	560	542	707	891	977	585
80°-90°	108.5	1.5	1.2	75°	255	275	338	526	565	272
90°-100°	0.0	0.0	0.0	85°	63	80	110	115	32	73
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°	2669.0	36.0	29.7							
0°-40°	4002.3	53.9	44.5							
0°-60°	6187.8	83.4	68.8							
0°-90°	7422.5	100.0	82.5							
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°	7422.5	100.0	82.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4387	4387	4387	4387	4387
2.5°	4367	4367	4361	4348	4343
5°	4327	4315	4277	4233	4215
7.5°	4263	4229	4137	4037	4011
10°	4180	4118	3957	3827	3781
12.5°	4082	3978	3753	3585	3518
15°	3971	3821	3540	3324	3244
17.5°	3850	3649	3303	3054	2967
20°	3718	3467	3066	2805	2727
22.5°	3574	3277	2827	2582	2528
25°	3423	3082	2606	2417	2414
27.5°	3267	2877	2403	2315	2312
30°	3103	2678	2228	2208	2204
32.5°	2933	2472	2093	2096	2064
35°	2761	2280	1987	1952	1899
37.5°	2581	2075	1875	1792	1753
40°	2399	1882	1759	1653	1612
42.5°	2214	1705	1618	1513	1479
45°	2027	1542	1472	1390	1393
47.5°	1837	1388	1331	1304	1368
50°	1646	1255	1203	1267	1353
52.5°	1453	1132	1091	1236	1311
55°	1266	1007	1005	1179	1258
57.5°	1079	881	942	1109	1198
60°	900	761	879	1039	1141
62.5°	726	647	795	971	1081
65°	560	542	707	891	977
67.5°	446	450	621	788	872
70°	375	380	529	690	773
72.5°	312	326	429	601	684
75°	255	275	338	526	565
77.5°	202	221	272	408	399
80°	153	170	220	292	238
82.5°	106	122	160	189	97
85°	63	80	110	115	32
87.5°	23	43	73	89	29
90°	0	0	0	0	0

(END OF REPORT)