

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: 218P116

Luminaire Tested: **EP3GX-132-S18MIASY**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 218P116
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: EP3GX-132-S18MIASY
Description: 1 X 4 Recessed Convertible Body Luminaire with an 8 cell specular assymetric parabolic louver.
Light Source: One - FO32/735 - 2800 Lumens - 32 Watts
Ballast/Driver: Magnetek B232I120RH Electronic

Summary

Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 1958.9 lumens
Efficiency: 70.0%
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 2.02 / 1.24 / 1.75
Luminous Opening: Rectangular (W 3.75' x L: 0.68' x H: 0')
CIE Type: Direct

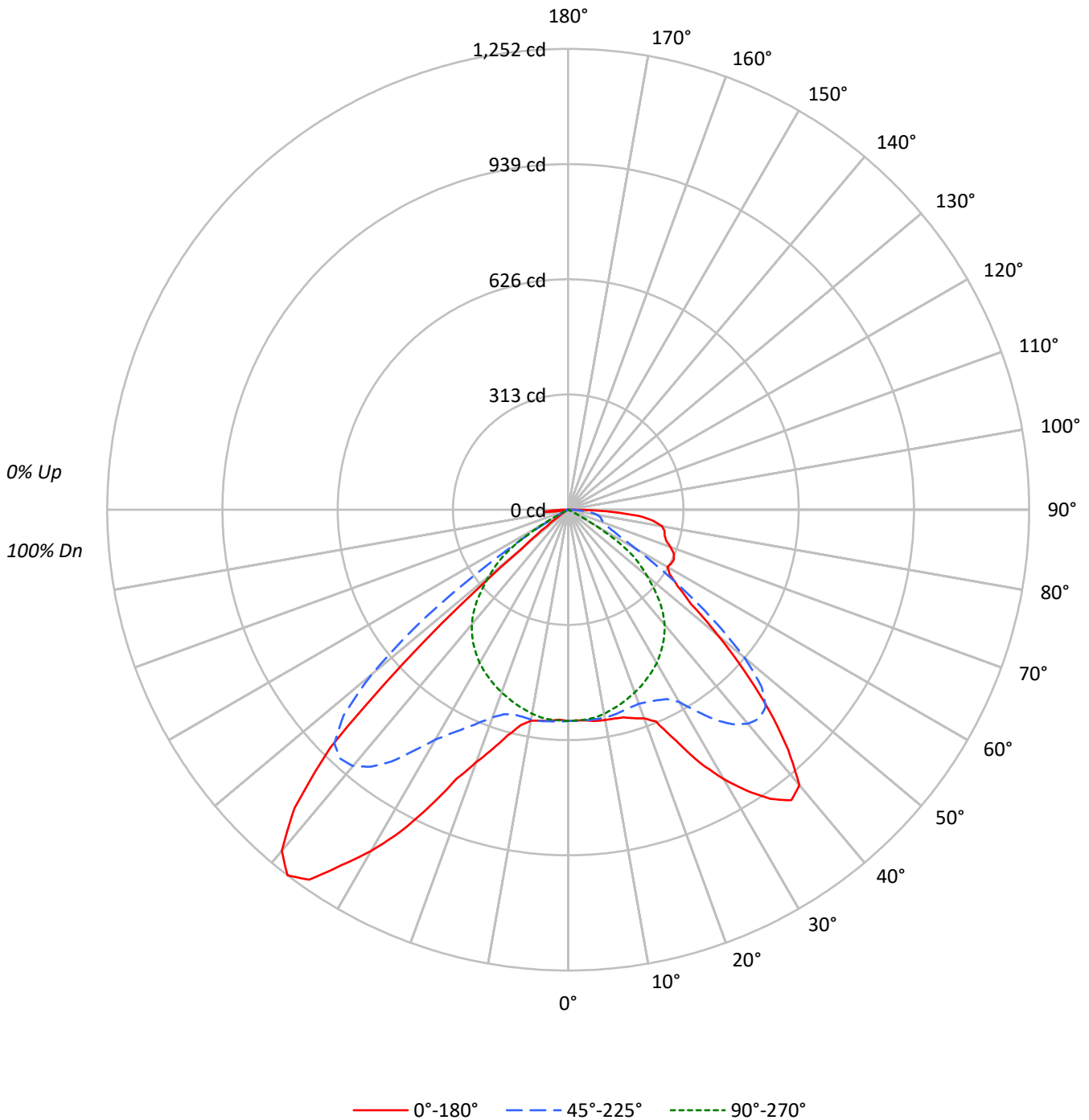
Input Watts (W): 36
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	83	83	83	81	81	81	81	78	78	78	74	74	74	71	71	71	70
1	77	74	71	69	75	72	70	68	69	67	66	67	65	64	64	63	62	60
2	71	66	61	58	69	64	60	57	62	58	56	60	57	54	57	55	53	52
3	65	58	53	49	63	57	52	48	55	51	48	53	50	47	51	49	46	45
4	60	52	46	42	58	51	46	42	49	45	41	48	44	40	46	43	40	39
5	55	47	41	36	54	46	40	36	44	39	36	43	39	35	42	38	35	33
6	51	42	36	32	49	41	36	31	40	35	31	39	34	31	38	34	31	29
7	47	38	32	28	46	37	32	28	36	31	27	35	31	27	34	30	27	26
8	44	34	29	25	43	34	28	25	33	28	24	32	28	24	31	27	24	23
9	41	31	26	22	40	31	26	22	30	25	22	29	25	22	29	25	22	20
10	38	29	23	20	37	28	23	20	28	23	20	27	23	19	26	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	2433	2433	2433
5°	2447	2434	2451
10°	2497	2424	2505
15°	2563	2401	2787
20°	2720	2382	3293
25°	3237	2367	4154
30°	4136	2355	5238
35°	4963	2318	6350
40°	5407	2252	6696
45°	4634	2098	5480
50°	3502	1847	1088
55°	2690	1537	222
60°	2637	712	93
65°	3180	60	70
70°	3656	37	62
75°	4439	33	82
80°	6323	24	195
85°	9339	49	3259



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	54.9	2.8	2.0	0°	574	574	574	574	574	
10°-20°	164.1	8.4	5.9	5°	575	574	572	577	576	55
20°-30°	294.5	15.0	10.5	15°	584	567	547	575	635	167
30°-40°	475.1	24.3	17.0	25°	692	571	506	653	888	329
40°-50°	518.1	26.4	18.5	35°	959	697	448	835	1227	594
50°-60°	265.1	13.5	9.5	45°	773	758	350	898	914	588
60°-70°	85.5	4.4	3.1	55°	364	392	208	310	30	342
70°-80°	62.2	3.2	2.2	65°	317	131	6	8	7	309
80°-90°	39.4	2.0	1.4	75°	271	93	2	2	5	289
90°-100°	0.0	0.0	0.0	85°	192	47	1	3	67	165
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	14
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	513.5	26.2	18.3	165°	0	0	0	0	0	0
0°-40°	988.6	50.5	35.3	175°	0	0	0	0	0	0
0°-60°	1771.8	90.4	63.3	180°	0	0	0	0	0	0
0°-90°	1958.9	100.0	70.0							
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°	1958.9	100.0	70.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	574	574	574	574	574	574	574	574	574
2.5°	573	576	574	572	573	575	576	576	571
5°	575	576	574	571	572	574	577	580	576
7.5°	579	578	574	568	569	572	579	583	578
10°	580	580	574	565	563	569	579	584	582
12.5°	581	580	571	560	555	564	576	590	600
15°	584	582	567	553	547	558	575	612	635
17.5°	594	589	563	545	538	552	583	646	681
20°	603	598	561	537	528	543	600	687	730
22.5°	623	612	565	528	518	536	625	731	791
25°	692	656	571	520	506	530	653	788	888
27.5°	775	733	580	512	494	527	684	873	986
30°	845	801	603	505	481	528	721	960	1070
32.5°	906	857	649	500	465	532	774	1033	1145
35°	959	904	697	495	448	537	835	1090	1227
37.5°	995	937	735	490	429	542	880	1148	1252
40°	977	939	759	483	407	544	909	1151	1210
42.5°	884	879	769	473	381	541	917	1088	1100
45°	773	772	758	463	350	532	898	957	914
47.5°	650	653	713	459	314	522	827	759	535
50°	531	532	626	447	280	502	698	450	165
52.5°	421	422	507	423	246	472	520	163	73
55°	364	341	392	387	208	422	310	72	30
57.5°	327	297	289	321	151	311	141	33	15
60°	311	270	211	202	84	159	47	14	11
62.5°	316	264	158	83	23	50	18	10	8
65°	317	260	131	26	6	11	8	7	7
67.5°	310	253	113	13	4	5	5	6	6
70°	295	243	102	9	3	4	3	5	5
72.5°	279	232	96	5	3	3	3	4	5
75°	271	224	93	3	2	2	2	4	5
77.5°	268	216	88	2	2	2	2	5	5
80°	259	201	80	2	1	1	2	9	8
82.5°	234	176	66	1	1	1	2	20	36
85°	192	134	47	1	1	1	3	35	67
87.5°	104	65	21	1	1	1	2	26	43
90°	0	0	0	0	0	0	0	0	0
92.5°	0	0	0	0	0	0	0	0	0
95°	0	0	0	0	0	0	0	0	0
97.5°	0	0	0	0	0	0	0	0	0
100°	0	0	0	0	0	0	0	0	0
102.5°	0	0	0	0	0	0	0	0	0
105°	0	0	0	0	0	0	0	0	0
107.5°	0	0	0	0	0	0	0	0	0
110°	0	0	0	0	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	0	0	0	0	0	0	0	0	0
115°	0	0	0	0	0	0	0	0	0
117.5°	0	0	0	0	0	0	0	0	0
120°	0	0	0	0	0	0	0	0	0
122.5°	0	0	0	0	0	0	0	0	0
125°	0	0	0	0	0	0	0	0	0
127.5°	0	0	0	0	0	0	0	0	0
130°	0	0	0	0	0	0	0	0	0
132.5°	0	0	0	0	0	0	0	0	0
135°	0	0	0	0	0	0	0	0	0
137.5°	0	0	0	0	0	0	0	0	0
140°	0	0	0	0	0	0	0	0	0
142.5°	0	0	0	0	0	0	0	0	0
145°	0	0	0	0	0	0	0	0	0
147.5°	0	0	0	0	0	0	0	0	0
150°	0	0	0	0	0	0	0	0	0
152.5°	0	0	0	0	0	0	0	0	0
155°	0	0	0	0	0	0	0	0	0
157.5°	0	0	0	0	0	0	0	0	0
160°	0	0	0	0	0	0	0	0	0
162.5°	0	0	0	0	0	0	0	0	0
165°	0	0	0	0	0	0	0	0	0
167.5°	0	0	0	0	0	0	0	0	0
170°	0	0	0	0	0	0	0	0	0
172.5°	0	0	0	0	0	0	0	0	0
175°	0	0	0	0	0	0	0	0	0
177.5°	0	0	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)