

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: 188P130

Luminaire Tested: **2EP3GX-332S28MI-2BC-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P130
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S28MI-2BC-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
16 cell specular low iridescent parabolic louver.
Light Source: Three - F032T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 88.9

Summary

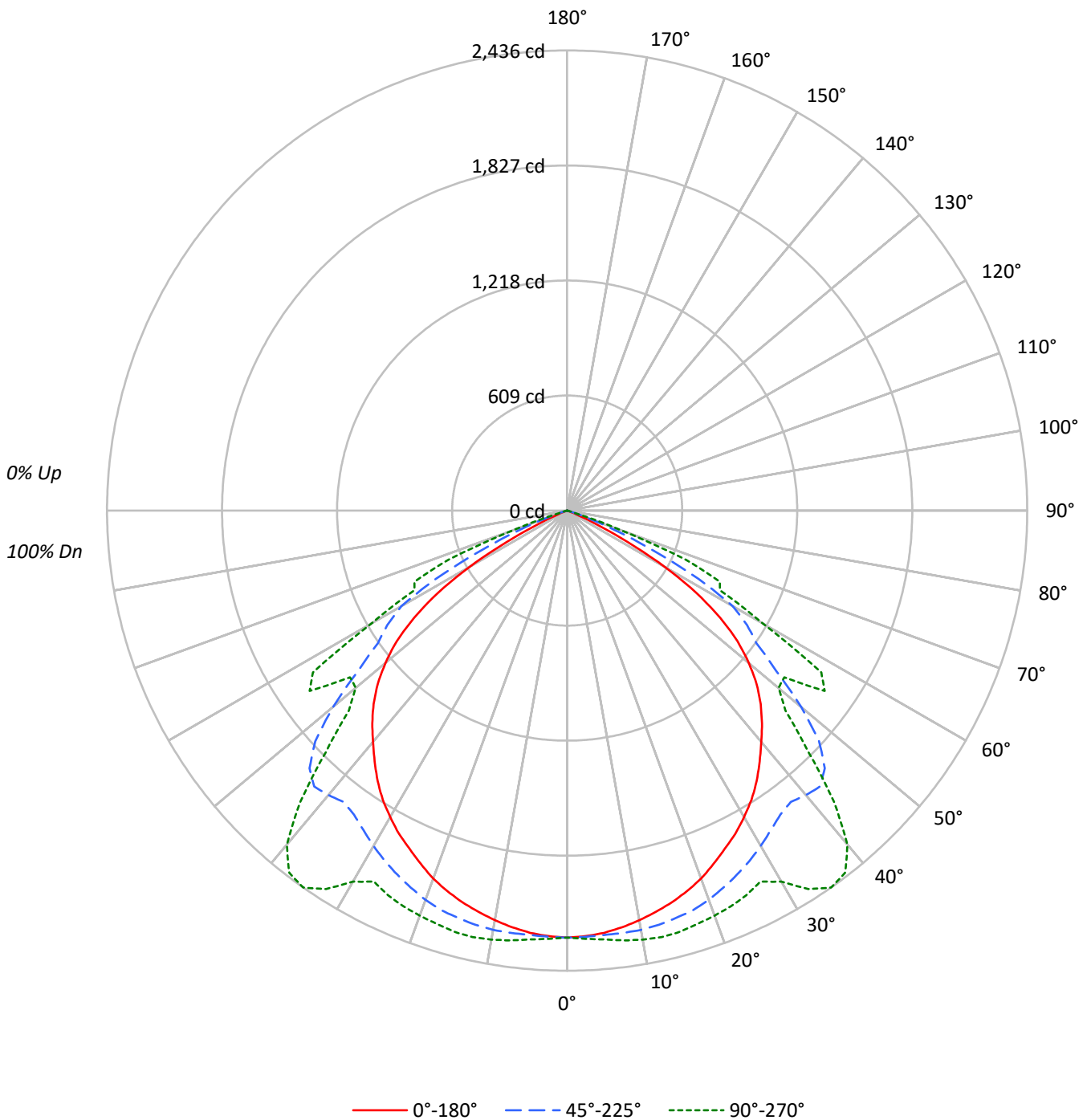
Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 6122.4 lumens
Efficiency: 72.9%
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.6 / 1.53
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 86.8
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	50	30	10	0	
RCR																						
0	87	87	87	87	85	85	85	85	81	81	81	78	78	78	74	74	74	74	74	74	73	
1	81	78	75	73	79	76	74	72	73	71	70	70	69	68	68	67	66	66	66	66	64	
2	74	69	65	61	73	68	64	61	65	62	59	63	60	58	61	59	57	57	57	57	55	
3	68	61	56	52	66	60	55	51	58	54	50	56	53	50	54	51	49	49	49	49	47	
4	63	55	49	44	61	54	48	44	52	47	43	50	46	43	49	45	42	42	42	42	41	
5	58	49	43	38	56	48	42	38	47	42	38	45	41	37	44	40	37	37	37	37	35	
6	53	44	38	33	52	43	38	33	42	37	33	41	36	33	40	36	32	32	32	32	31	
7	49	40	34	30	48	39	34	29	38	33	29	37	32	29	36	32	29	29	29	29	27	
8	46	36	30	26	45	36	30	26	35	30	26	34	29	26	33	29	26	26	26	26	24	
9	43	33	27	24	42	33	27	24	32	27	23	31	27	23	31	26	23	23	23	23	22	
10	40	31	25	21	39	30	25	21	30	25	21	29	24	21	28	24	21	21	21	21	20	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3753	3753	3753
5°	3739	3757	3797
10°	3712	3799	3887
15°	3688	3836	3966
20°	3662	3874	4031
25°	3617	3896	4114
30°	3590	3929	4347
35°	3544	3984	4936
40°	3465	4260	5001
45°	3402	4528	4240
50°	3244	4178	3770
55°	2859	3539	4816
60°	2002	3363	3977
65°	648	2011	3504
70°	53	597	1398
75°	32	45	45
80°	29	29	29
85°	19	19	38



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	215.4	3.5	2.6	0°	2261	2261	2261	2261	2261	
10°-20°	629.9	10.3	7.5	5°	2244	2246	2255	2270	2279	213
20°-30°	979.3	16.0	11.7	15°	2146	2173	2232	2287	2308	606
30°-40°	1277.1	20.9	15.2	25°	1975	2043	2127	2202	2246	912
40°-50°	1338.5	21.9	15.9	35°	1749	1849	1966	2294	2436	1092
50°-60°	1133.3	18.5	13.5	45°	1449	1563	1929	1871	1806	1112
60°-70°	517.2	8.4	6.2	55°	988	1231	1223	1401	1664	862
70°-80°	30.0	0.5	0.4	65°	165	282	512	719	892	216
80°-90°	1.5	0.0	0.0	75°	5	5	7	9	7	6
90°-100°	0.0	0.0	0.0	85°	1	1	1	1	2	1
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
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°	1824.6	29.8	21.7	165°	0	0	0	0	0	0
0°-40°	3101.8	50.7	36.9	175°	0	0	0	0	0	0
0°-60°	5573.6	91.0	66.4	180°	0	0	0	0	0	0
0°-90°	6122.4	100.0	72.9							
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°	6122.4	100.0	72.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2261	2261	2261	2261	2261
2.5°	2255	2255	2258	2264	2269
5°	2244	2246	2255	2270	2279
7.5°	2225	2231	2255	2283	2295
10°	2202	2212	2254	2290	2306
12.5°	2175	2193	2246	2292	2313
15°	2146	2173	2232	2287	2308
17.5°	2112	2150	2218	2268	2294
20°	2073	2122	2193	2249	2282
22.5°	2025	2085	2161	2228	2267
25°	1975	2043	2127	2202	2246
27.5°	1929	1999	2091	2171	2214
30°	1873	1954	2050	2146	2268
32.5°	1816	1906	2006	2204	2375
35°	1749	1849	1966	2294	2436
37.5°	1674	1783	1944	2311	2417
40°	1599	1711	1966	2259	2308
42.5°	1527	1636	1981	2117	2091
45°	1449	1563	1929	1871	1806
47.5°	1361	1495	1808	1607	1567
50°	1256	1436	1618	1426	1460
52.5°	1138	1359	1395	1375	1449
55°	988	1231	1223	1401	1664
57.5°	812	1031	1129	1431	1595
60°	603	771	1013	1230	1198
62.5°	363	499	785	895	912
65°	165	282	512	719	892
67.5°	49	110	292	556	679
70°	11	21	123	270	288
72.5°	7	8	25	65	54
75°	5	5	7	9	7
77.5°	4	4	4	5	5
80°	3	3	3	3	3
82.5°	2	2	2	2	2
85°	1	1	1	1	2
87.5°	1	1	1	1	1
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)