

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: 188P134

Luminaire Tested: **2EP3GX-332S26I-2NSBC-PAF**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P134
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S26I-2NSBC-PAF
Description: : 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
12 cell semi-specular low iridescent parabolic louver.
Light Source: Three - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 88.9

Summary

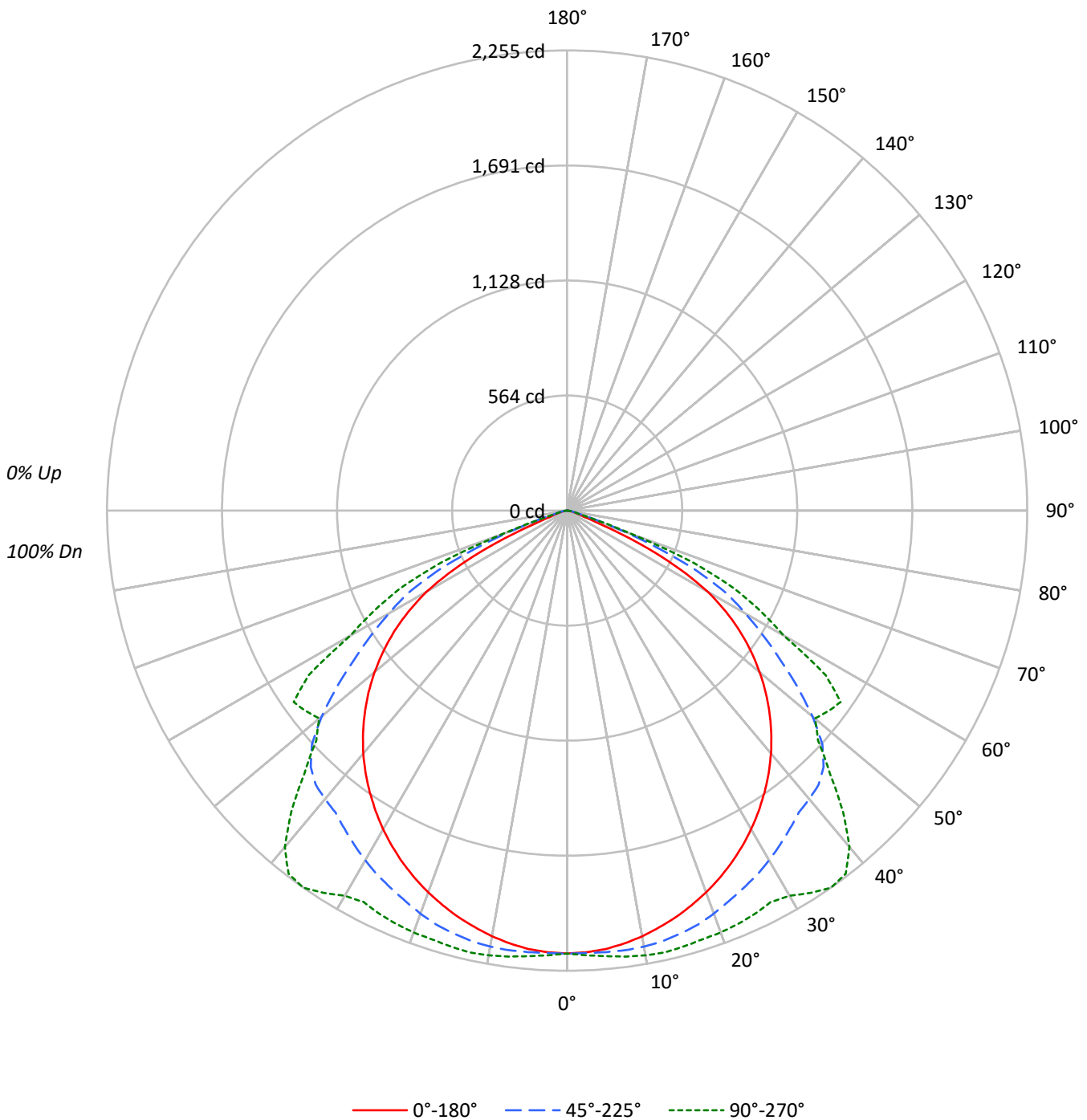
Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 6159.5 lumens
Efficiency: 73.3%
Efficacy: 70.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.57 / 1.52
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

Input Watts (W): 86.9
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	75	75	75	73				73
1	81	78	75	73	79	76	74	72	73	71	69	70	69	67	68	67	65	64				64
2	74	69	64	61	72	67	63	60	65	61	58	63	60	57	60	58	56	54				54
3	68	61	55	51	66	60	55	50	58	53	50	56	52	49	54	51	48	46				46
4	62	54	48	43	61	53	47	43	51	46	42	50	45	42	48	44	41	40				40
5	57	48	42	37	56	47	41	37	46	41	37	44	40	36	43	39	36	34				34
6	53	43	37	32	51	43	37	32	41	36	32	40	35	32	39	35	31	30				30
7	49	39	33	29	48	39	33	28	38	32	28	36	32	28	35	31	28	26				26
8	45	36	30	25	44	35	29	25	34	29	25	33	29	25	32	28	25	23				23
9	42	33	27	23	41	32	27	23	31	26	23	31	26	22	30	26	22	21				21
10	40	30	24	21	39	30	24	21	29	24	20	28	24	20	28	23	20	19				19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3604	3604	3604
5°	3594	3619	3652
10°	3570	3658	3730
15°	3544	3688	3800
20°	3517	3713	3886
25°	3489	3740	3993
30°	3456	3793	4178
35°	3417	3856	4570
40°	3367	3998	4663
45°	3294	4172	4275
50°	3179	4054	4093
55°	2998	3690	4735
60°	2643	3353	4074
65°	1693	2777	3547
70°	422	1373	1665
75°	250	366	340
80°	163	229	249
85°	114	152	171



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	207.2	3.4	2.5	0°	2171	2171	2171	2171	2171	
10°-20°	605.2	9.8	7.2	5°	2157	2160	2172	2184	2192	205
20°-30°	944.4	15.3	11.2	15°	2062	2091	2146	2193	2211	582
30°-40°	1213.6	19.7	14.4	25°	1905	1965	2042	2133	2180	878
40°-50°	1292.8	21.0	15.4	35°	1686	1772	1903	2122	2255	1054
50°-60°	1149.2	18.7	13.7	45°	1403	1521	1777	1818	1821	1080
60°-70°	650.6	10.6	7.7	55°	1036	1187	1275	1427	1636	918
70°-80°	86.6	1.4	1.0	65°	431	550	707	788	903	415
80°-90°	9.9	0.2	0.1	75°	39	48	57	58	53	46
90°-100°	0.0	0.0	0.0	85°	6	7	8	9	9	7
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°	1756.8	28.5	20.9	165°	0	0	0	0	0	0
0°-40°	2970.5	48.2	35.4	175°	0	0	0	0	0	0
0°-60°	5412.4	87.9	64.4	180°	0	0	0	0	0	0
0°-90°	6159.5	100.0	73.3							
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°	6159.5	100.0	73.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2171	2171	2171	2171	2171
2.5°	2166	2166	2170	2176	2181
5°	2157	2160	2172	2184	2192
7.5°	2140	2149	2173	2194	2204
10°	2118	2133	2170	2200	2213
12.5°	2091	2113	2161	2200	2217
15°	2062	2091	2146	2193	2211
17.5°	2028	2065	2128	2178	2203
20°	1991	2036	2102	2165	2200
22.5°	1950	2002	2071	2151	2192
25°	1905	1965	2042	2133	2180
27.5°	1856	1924	2013	2110	2162
30°	1803	1879	1979	2087	2180
32.5°	1746	1828	1942	2098	2221
35°	1686	1772	1903	2122	2255
37.5°	1622	1714	1865	2129	2243
40°	1554	1653	1845	2088	2152
42.5°	1481	1589	1823	1978	2000
45°	1403	1521	1777	1818	1821
47.5°	1320	1447	1696	1650	1668
50°	1231	1367	1570	1520	1585
52.5°	1137	1281	1424	1436	1614
55°	1036	1187	1275	1427	1636
57.5°	923	1081	1139	1367	1503
60°	796	946	1010	1194	1227
62.5°	627	769	882	948	1071
65°	431	550	707	788	903
67.5°	192	318	487	596	672
70°	87	134	283	356	343
72.5°	57	73	132	145	111
75°	39	48	57	58	53
77.5°	26	32	36	38	38
80°	17	21	24	25	26
82.5°	10	13	15	16	16
85°	6	7	8	9	9
87.5°	2	3	3	3	3
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)