

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: 188P135

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 188P135
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GX-332S28MI-2NSBC-PAF
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep
16 cell 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: 6177.3 lumens
Efficiency: 73.5%
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.61 / 1.54
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')
CIE Type: Direct

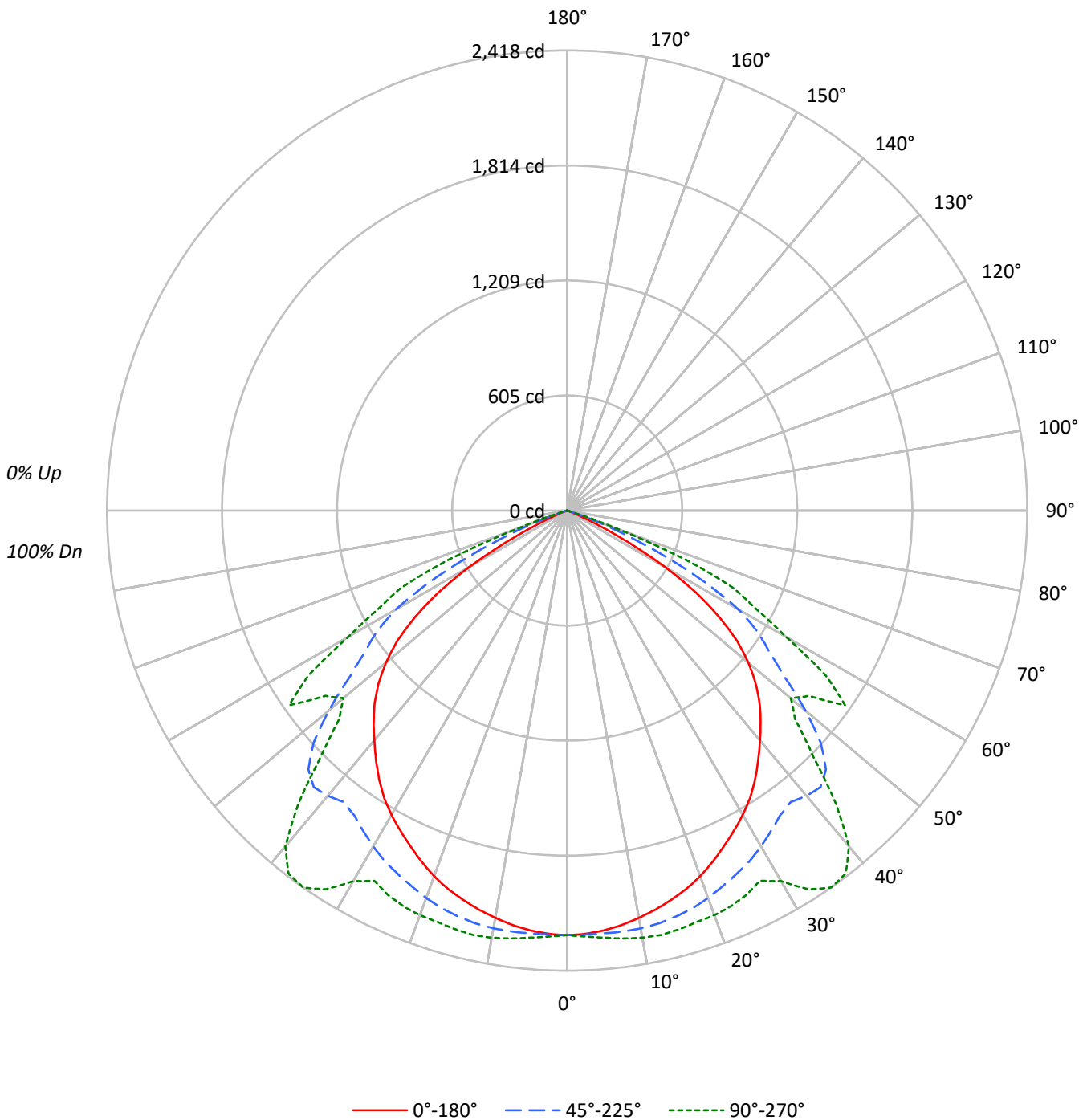
Input Watts (W): 86.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	88	88	88	86	86	86	86	82	82	82	78	78	78	75	75	75	74				
1	81	79	76	74	80	77	75	72	74	72	70	71	69	68	68	67	66	65				
2	75	70	65	62	73	68	64	61	66	62	59	63	61	58	61	59	57	55				
3	69	62	56	52	67	61	56	52	58	54	51	56	53	50	55	52	49	47				
4	63	55	49	44	61	54	48	44	52	47	43	50	46	43	49	45	42	41				
5	58	49	43	38	56	48	42	38	47	42	38	45	41	37	44	40	37	35				
6	53	44	38	33	52	43	38	33	42	37	33	41	36	33	40	36	32	31				
7	50	40	34	29	48	39	33	29	38	33	29	37	32	29	36	32	29	27				
8	46	36	30	26	45	36	30	26	35	30	26	34	29	26	33	29	26	24				
9	43	33	27	23	42	33	27	23	32	27	23	31	27	23	31	26	23	22				
10	40	31	25	21	39	30	25	21	30	25	21	29	24	21	28	24	21	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3703	3703	3703
5°	3691	3716	3754
10°	3663	3757	3841
15°	3638	3794	3913
20°	3611	3826	3996
25°	3566	3859	4081
30°	3538	3906	4309
35°	3492	3958	4900
40°	3415	4241	4993
45°	3357	4514	4298
50°	3210	4222	3961
55°	2825	3756	5157
60°	1992	3456	4405
65°	656	2207	3798
70°	53	641	1340
75°	32	45	51
80°	29	29	38
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°	212.9	3.4	2.5	0°	2231	2231	2231	2231	2231	
10°-20°	622.5	10.1	7.4	5°	2215	2218	2230	2244	2253	210
20°-30°	969.6	15.7	11.5	15°	2117	2150	2208	2257	2277	597
30°-40°	1266.9	20.5	15.1	25°	1947	2021	2107	2187	2228	898
40°-50°	1343.2	21.7	16.0	35°	1723	1830	1953	2277	2418	1076
50°-60°	1174.3	19.0	14.0	45°	1430	1561	1923	1883	1831	1098
60°-70°	556.3	9.0	6.6	55°	976	1233	1298	1496	1782	853
70°-80°	30.1	0.5	0.4	65°	167	295	562	827	967	217
80°-90°	1.7	0.0	0.0	75°	5	6	7	10	8	6
90°-100°	0.0	0.0	0.0	85°	1	1	1	2	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°	1805.0	29.2	21.5	165°	0	0	0	0	0	0
0°-40°	3071.8	49.7	36.6	175°	0	0	0	0	0	0
0°-60°	5589.3	90.5	66.5	180°	0	0	0	0	0	0
0°-90°	6177.3	100.0	73.5							
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°	6177.3	100.0	73.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2231	2231	2231	2231	2231
2.5°	2226	2226	2230	2235	2241
5°	2215	2218	2230	2244	2253
7.5°	2197	2205	2231	2256	2268
10°	2173	2188	2229	2263	2279
12.5°	2147	2170	2222	2264	2284
15°	2117	2150	2208	2257	2277
17.5°	2084	2126	2191	2240	2267
20°	2044	2097	2166	2226	2262
22.5°	1998	2062	2136	2210	2250
25°	1947	2021	2107	2187	2228
27.5°	1897	1977	2076	2154	2193
30°	1846	1932	2038	2125	2248
32.5°	1790	1884	1995	2187	2360
35°	1723	1830	1953	2277	2418
37.5°	1650	1768	1930	2296	2404
40°	1576	1701	1957	2250	2304
42.5°	1505	1631	1971	2116	2092
45°	1430	1561	1923	1883	1831
47.5°	1344	1495	1808	1647	1626
50°	1243	1436	1635	1511	1534
52.5°	1125	1362	1444	1465	1600
55°	976	1233	1298	1496	1782
57.5°	804	1037	1188	1508	1612
60°	600	784	1041	1293	1327
62.5°	367	521	816	1029	1118
65°	167	295	562	827	967
67.5°	50	113	329	570	677
70°	11	21	132	263	276
72.5°	7	8	25	64	52
75°	5	6	7	10	8
77.5°	4	4	5	5	5
80°	3	3	3	4	4
82.5°	2	2	2	2	3
85°	1	1	1	2	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)