

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: ITL48352

Luminaire Tested: **2EP3GAX-3U3S33I**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL48352
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2EP3GAX-3U3S33I
Description: FABRICATED METAL HOUSING WITH WHITE PAINTED INTERIOR FINISH,
TWO WHITE PAINTED FORMED METAL BALLAST COVERS, FABRICATED
DIFFUSE METAL PARABOLIC 9-CELL LOUVER.
Light Source: THREE 40-WATT T-12 U-LAMP FLUORESCENTS, G.E. F40CW/U/3,
HORIZONTAL POSITION.
Ballast/Driver: ADVANCE REL-3S40-TP

Summary

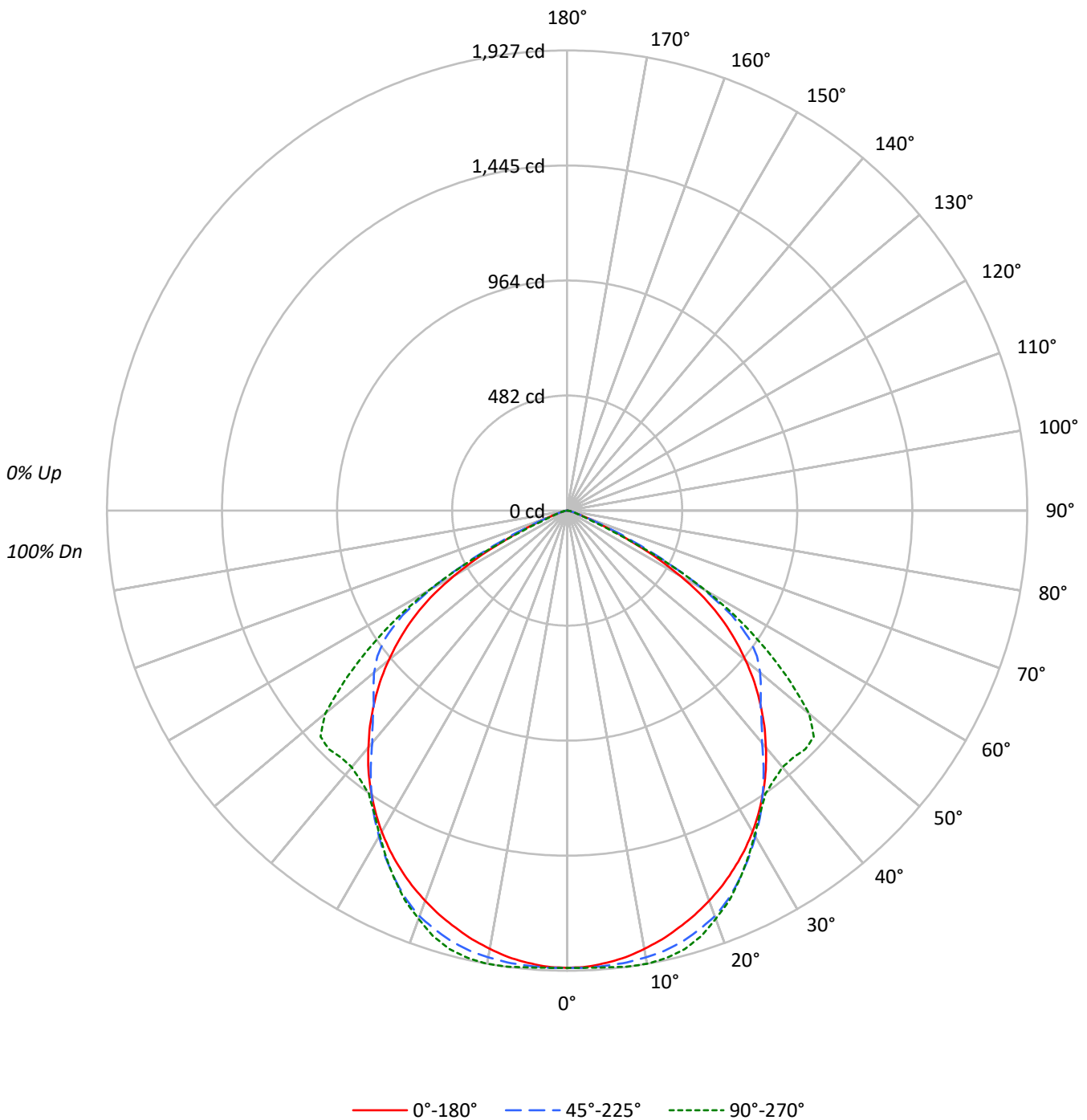
Lumens per Lamp: 2725 (3 lamps)
Luminaire Lumens: 4463.5 lumens
Efficiency: 54.6%
Efficacy: 40.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.31
Luminous Opening: Rectangular (W 1.73' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 109
Input Voltage (V): NR
Input Current (A_{in}): 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										
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	50	30	10	0														
RCR																																						
0	65	65	65	65	63	63	63	63	61	61	61	58	58	58	56	56	56	55																				
1	61	59	57	55	59	57	56	54	55	54	52	53	52	51	51	50	49	48																				
2	56	52	49	46	55	51	48	46	49	47	45	48	46	44	46	44	43	42																				
3	51	46	43	40	50	46	42	39	44	41	39	43	40	38	41	39	37	36																				
4	47	42	37	34	46	41	37	34	40	36	33	38	35	33	37	35	33	31																				
5	44	37	33	30	43	37	33	29	36	32	29	35	31	29	34	31	29	28																				
6	41	34	29	26	40	33	29	26	32	29	26	31	28	26	31	28	25	24																				
7	38	31	26	23	37	30	26	23	29	26	23	29	25	23	28	25	23	22																				
8	35	28	24	21	34	28	24	21	27	23	21	26	23	20	26	23	20	19																				
9	33	26	22	19	32	26	21	19	25	21	19	24	21	18	24	21	18	17																				
10	31	24	20	17	30	24	20	17	23	19	17	23	19	17	22	19	17	16																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6791	6791	6791
5°	6767	6810	6835
10°	6712	6842	6939
15°	6638	6858	6979
20°	6563	6823	6865
25°	6472	6672	6679
30°	6360	6454	6429
35°	6204	6191	6269
40°	5995	5879	6495
45°	5738	5743	7082
50°	5385	5821	7294
55°	4878	5738	6319
60°	3887	4674	4802
65°	2190	2559	1955
70°	850	850	664
75°	343	370	411
80°	204	225	265
85°	81	163	163



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	182.2	4.1	2.2	0°	1915	1915	1915	1915	1915	
10°-20°	524.7	11.8	6.4	5°	1901	1909	1913	1919	1920	180
20°-30°	779.4	17.5	9.5	15°	1808	1834	1868	1894	1901	510
30°-40°	902.3	20.2	11.0	25°	1654	1693	1705	1698	1707	762
40°-50°	939.5	21.0	11.5	35°	1433	1468	1430	1416	1448	895
50°-60°	793.9	17.8	9.7	45°	1144	1148	1145	1298	1412	880
60°-70°	301.9	6.8	3.7	55°	789	794	928	987	1022	695
70°-80°	35.1	0.8	0.4	65°	261	296	305	272	233	278
80°-90°	4.6	0.1	0.1	75°	25	27	27	29	30	34
90°-100°	0.0	0.0	0.0	85°	2	3	4	4	4	4
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°	1486.2	33.3	18.2							
0°-40°	2388.6	53.5	29.2							
0°-60°	4122.0	92.3	50.4							
0°-90°	4463.5	100.0	54.6							
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°	4463.5	100.0	54.6							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1915	1915	1915	1915	1915
2.5°	1912	1915	1916	1917	1916
5°	1901	1909	1913	1919	1920
7.5°	1886	1896	1909	1923	1926
10°	1864	1879	1900	1921	1927
12.5°	1839	1858	1888	1912	1919
15°	1808	1834	1868	1894	1901
17.5°	1776	1806	1840	1861	1868
20°	1739	1773	1808	1812	1819
22.5°	1699	1735	1762	1759	1770
25°	1654	1693	1705	1698	1707
27.5°	1606	1647	1643	1633	1639
30°	1553	1594	1576	1559	1570
32.5°	1495	1535	1507	1484	1503
35°	1433	1468	1430	1416	1448
37.5°	1367	1396	1351	1363	1422
40°	1295	1318	1270	1330	1403
42.5°	1222	1233	1205	1309	1402
45°	1144	1148	1145	1298	1412
47.5°	1063	1063	1100	1287	1401
50°	976	974	1055	1245	1322
52.5°	885	884	1001	1141	1178
55°	789	794	928	987	1022
57.5°	679	694	818	820	857
60°	548	576	659	648	677
62.5°	404	441	479	464	460
65°	261	296	305	272	233
67.5°	151	172	167	121	102
70°	82	88	82	65	64
72.5°	42	46	41	43	43
75°	25	27	27	29	30
77.5°	17	18	18	19	20
80°	10	11	11	13	13
82.5°	6	7	8	8	8
85°	2	3	4	4	4
87.5°	0	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)