

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: 126P132

Luminaire Tested: **2GC-2U6T8A**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 126P132
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-2U6T8A
Description: 2 X 2 Recessed Convertible Body Luminaire with a
.095 pattern 12 acrylic lens.
Light Source: Two - FB31T8/TL735/6 - 2600 Lumens ea. - 32 Watts ea.
Ballast/Driver: Advance REL-2P32-RH-TP Electronic - L.O.B.F. = 85.4

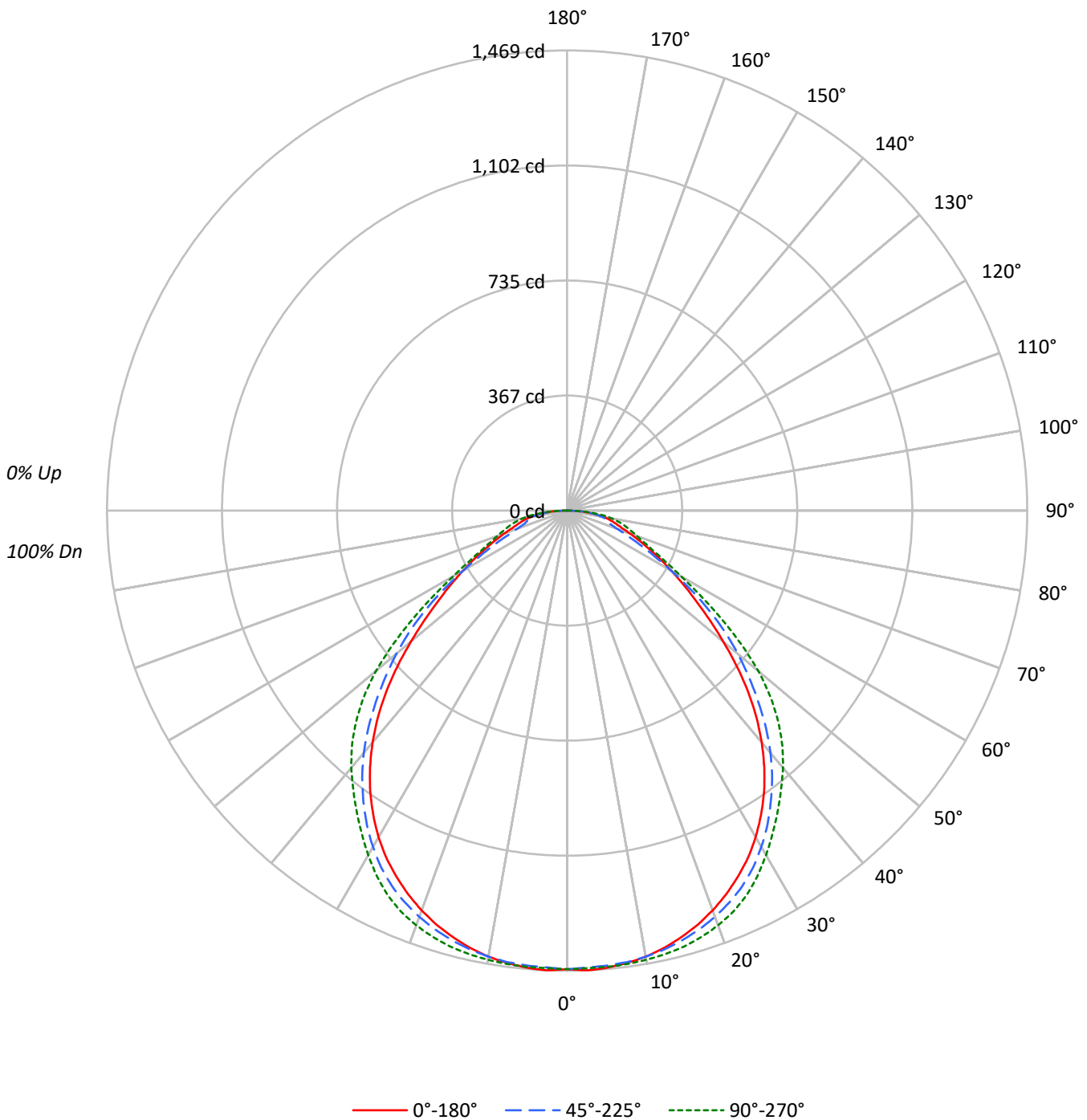
Summary

Lumens per Lamp: 2600 (2 lamps)
Luminaire Lumens: 3538.4 lumens
Efficiency: 68.0%
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.27 / 1.31
Luminous Opening: Rectangular (W 1.79' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 53.1
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	81	81	81	81	79	79	79	79	76	76	76		72	72	72		69	69	69	68
1	75	72	69	66	73	70	68	65	67	65	63		65	63	61		62	61	60	58
2	68	63	59	55	67	62	58	55	60	56	53		57	55	52		55	53	51	50
3	63	56	51	47	61	55	50	47	53	49	46		51	48	45		50	47	44	43
4	58	50	45	40	56	49	44	40	48	43	40		46	42	39		45	41	39	37
5	54	45	40	35	52	45	39	35	43	38	35		42	38	34		41	37	34	33
6	50	41	35	31	48	40	35	31	39	34	31		38	34	30		37	33	30	29
7	46	37	32	28	45	37	31	28	36	31	27		35	30	27		34	30	27	26
8	43	34	29	25	42	34	28	25	33	28	25		32	28	24		31	27	24	23
9	40	31	26	22	39	31	26	22	30	26	22		30	25	22		29	25	22	21
10	38	29	24	20	37	29	24	20	28	24	20		27	23	20		27	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4867	4867	4867
5°	4889	4865	4879
10°	4881	4881	4915
15°	4852	4887	4959
20°	4804	4882	4984
25°	4732	4853	4970
30°	4622	4760	4875
35°	4448	4602	4756
40°	4192	4383	4652
45°	3836	4057	4480
50°	3367	3677	4122
55°	2904	3188	3472
60°	2546	2540	2792
65°	2257	1990	2391
70°	2061	1643	2303
75°	2055	1708	2466
80°	2297	2163	2776
85°	2479	2441	2975



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	139.1	3.9	2.7	0°	1464	1464	1464	1464	1464	
10°-20°	401.5	11.3	7.7	5°	1465	1459	1458	1463	1462	139
20°-30°	608.1	17.2	11.7	15°	1410	1409	1420	1436	1441	398
30°-40°	707.7	20.0	13.6	25°	1290	1298	1323	1348	1355	594
40°-50°	670.5	18.9	12.9	35°	1096	1107	1134	1159	1172	683
50°-60°	489.2	13.8	9.4	45°	816	830	863	916	953	626
60°-70°	281.5	8.0	5.4	55°	501	507	550	578	599	453
70°-80°	169.3	4.8	3.3	65°	287	263	253	298	304	288
80°-90°	71.5	2.0	1.4	75°	160	150	133	177	192	171
90°-100°	0.0	0.0	0.0	85°	65	63	64	77	78	64
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	5
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°	1148.7	32.5	22.1	165°	0	0	0	0	0	0
0°-40°	1856.4	52.5	35.7	175°	0	0	0	0	0	0
0°-60°	3016.1	85.2	58.0	180°	0	0	0	0	0	0
0°-90°	3538.4	100.0	68.0							
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°	3538.4	100.0	68.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1464	1464	1464	1464	1464
2.5°	1469	1463	1460	1464	1462
5°	1465	1459	1458	1463	1462
7.5°	1457	1452	1454	1460	1460
10°	1446	1442	1446	1455	1456
12.5°	1430	1428	1435	1447	1450
15°	1410	1409	1420	1436	1441
17.5°	1386	1387	1402	1421	1427
20°	1358	1361	1380	1402	1409
22.5°	1326	1331	1354	1379	1386
25°	1290	1298	1323	1348	1355
27.5°	1250	1259	1285	1309	1316
30°	1204	1215	1240	1262	1270
32.5°	1152	1164	1190	1211	1221
35°	1096	1107	1134	1159	1172
37.5°	1034	1045	1075	1105	1122
40°	966	979	1010	1049	1072
42.5°	894	908	939	986	1017
45°	816	830	863	916	953
47.5°	734	748	787	837	881
50°	651	668	711	754	797
52.5°	573	585	634	668	700
55°	501	507	550	578	599
57.5°	440	431	464	491	503
60°	383	364	382	413	420
62.5°	333	309	312	348	354
65°	287	263	253	298	304
67.5°	247	226	205	259	266
70°	212	195	169	228	237
72.5°	182	171	145	201	213
75°	160	150	133	177	192
77.5°	141	130	125	154	170
80°	120	109	113	130	145
82.5°	93	87	92	106	115
85°	65	63	64	77	78
87.5°	34	34	34	40	37
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)