

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: P30953

Luminaire Tested: **2GC8-417A-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30953
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC8-417A-UNV-EB81
Description: METALUX 2' X 2' SPECIFICATION GRADE RECESSED FLUORESCENT TROFFER
WITH HIGH REFLECTANCE WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS
Light Source: (4) T8 LINEAR FLUORESCENT LAMPS 3500K
Ballast/Driver: -
QUICKTRONICS QTP4x32T8/UNV ISN-SC

Summary

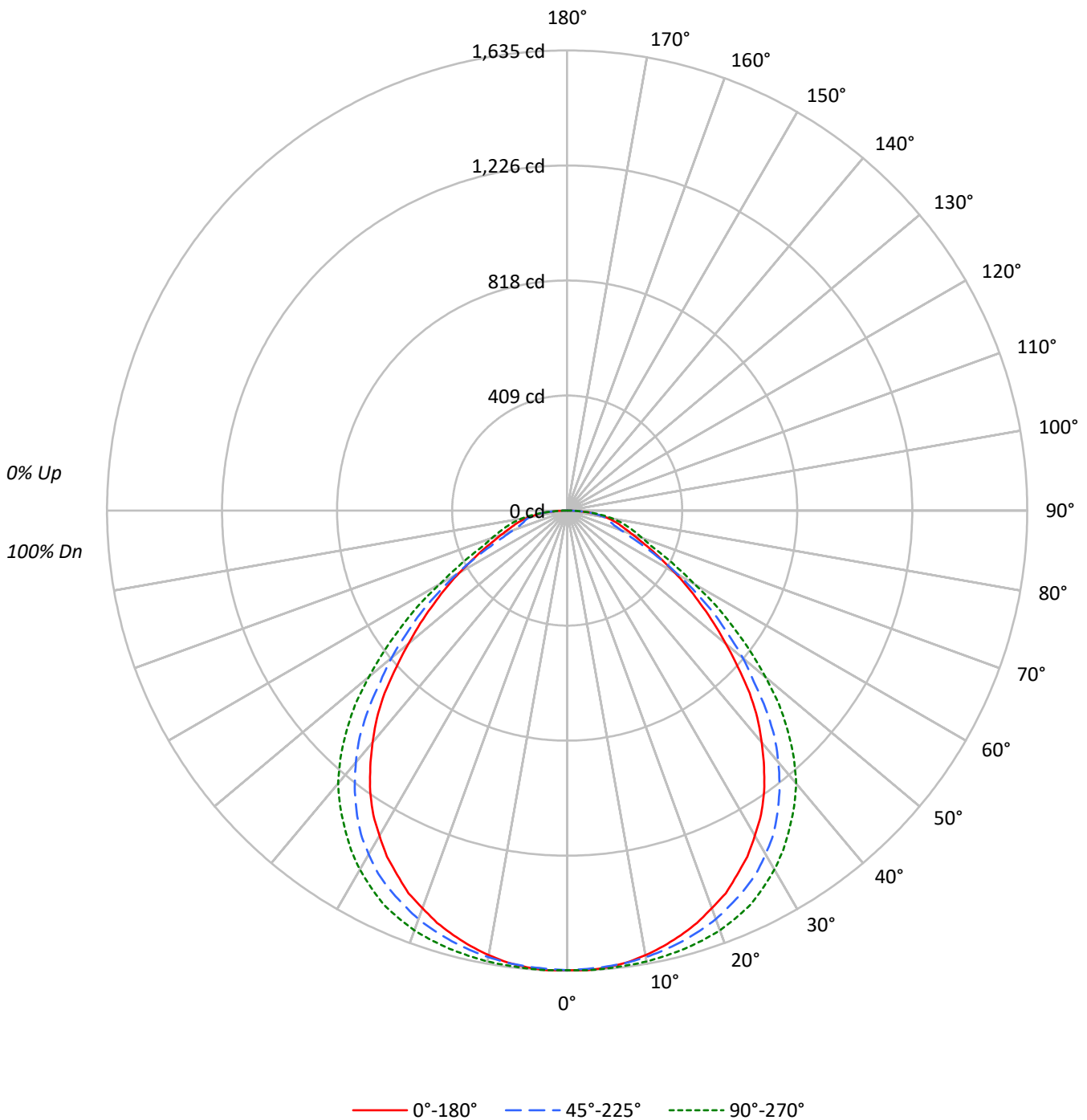
Lumens per Lamp: 1350 (4 lamps)
Luminaire Lumens: 4058.3 lumens
Efficiency: 75.2%
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 55.5
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	89	89	89	89	87	87	87	87	84	84	84		80	80	80		77	77	77	75
1	82	79	76	73	80	77	75	72	74	72	70		71	69	68		68	67	66	64
2	75	70	65	61	74	68	64	60	66	62	59		63	60	57		61	58	56	55
3	69	62	56	52	67	61	55	51	59	54	50		56	53	49		55	51	49	47
4	64	55	49	44	62	54	49	44	52	47	43		51	46	43		49	45	42	41
5	59	50	43	39	57	49	43	38	47	42	38		46	41	38		45	40	37	36
6	55	45	39	34	53	44	38	34	43	38	34		42	37	33		41	36	33	31
7	51	41	35	30	49	40	34	30	39	34	30		38	33	30		37	33	29	28
8	47	37	31	27	46	37	31	27	36	31	27		35	30	27		34	30	27	25
9	44	34	29	24	43	34	28	24	33	28	24		32	28	24		32	27	24	23
10	42	32	26	22	41	31	26	22	31	26	22		30	25	22		29	25	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4394	4394	4394
5°	4400	4392	4411
10°	4383	4402	4446
15°	4352	4413	4491
20°	4304	4424	4545
25°	4240	4418	4584
30°	4145	4381	4577
35°	4008	4287	4527
40°	3780	4103	4447
45°	3490	3802	4224
50°	3081	3416	3847
55°	2712	2984	3369
60°	2379	2449	2809
65°	2095	1910	2388
70°	1936	1597	2227
75°	1996	1664	2329
80°	2185	2077	2541
85°	2408	2470	2501



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	155.0	3.8	2.9	0°	1633	1633	1633	1633	1633	
10°-20°	447.8	11.0	8.3	5°	1629	1627	1626	1630	1633	155
20°-30°	684.4	16.9	12.7	15°	1562	1568	1584	1604	1612	441
30°-40°	811.2	20.0	15.0	25°	1428	1449	1488	1526	1544	658
40°-50°	771.2	19.0	14.3	35°	1220	1250	1305	1354	1378	759
50°-60°	576.5	14.2	10.7	45°	917	936	999	1071	1110	702
60°-70°	334.0	8.2	6.2	55°	578	597	636	702	718	521
70°-80°	195.0	4.8	3.6	65°	329	309	300	350	375	330
80°-90°	83.4	2.1	1.5	75°	192	171	160	191	224	203
90°-100°	0.0	0.0	0.0	85°	78	78	80	89	81	81
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°	1287.1	31.7	23.8							
0°-40°	2098.3	51.7	38.9							
0°-60°	3446.0	84.9	63.8							
0°-90°	4058.3	100.0	75.2							
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°	4058.3	100.0	75.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1633	1633	1633	1633	1633
2.5°	1635	1632	1630	1632	1635
5°	1629	1627	1626	1630	1633
7.5°	1620	1619	1621	1626	1630
10°	1604	1605	1611	1621	1627
12.5°	1585	1589	1599	1613	1620
15°	1562	1568	1584	1604	1612
17.5°	1536	1544	1566	1590	1601
20°	1503	1515	1545	1573	1587
22.5°	1472	1485	1517	1551	1567
25°	1428	1449	1488	1526	1544
27.5°	1386	1406	1454	1491	1510
30°	1334	1361	1410	1450	1473
32.5°	1282	1306	1364	1401	1429
35°	1220	1250	1305	1354	1378
37.5°	1149	1183	1240	1294	1325
40°	1076	1102	1168	1227	1266
42.5°	1001	1026	1091	1156	1192
45°	917	936	999	1071	1110
47.5°	823	841	900	978	1022
50°	736	760	816	886	919
52.5°	657	673	721	796	820
55°	578	597	636	702	718
57.5°	509	516	543	608	625
60°	442	438	455	514	522
62.5°	380	366	374	426	444
65°	329	309	300	350	375
67.5°	283	259	245	298	317
70°	246	223	203	253	283
72.5°	216	195	176	218	253
75°	192	171	160	191	224
77.5°	168	149	151	167	196
80°	141	126	134	147	164
82.5°	109	103	109	121	127
85°	78	78	80	89	81
87.5°	40	44	41	44	39
90°	0	0	0	0	0

(END OF REPORT)