

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: P22140

Luminaire Tested: **2GC-LD1-26-A-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P22140
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-LD1-26-A-UNV-L835-CD1-U
Description: METALUX COMMERCIAL 2x2 LED TROFFER WITH A12 LENS
Light Source: 3500K LED
Ballast/Driver: -
LEDINTA2000C24D0

Summary

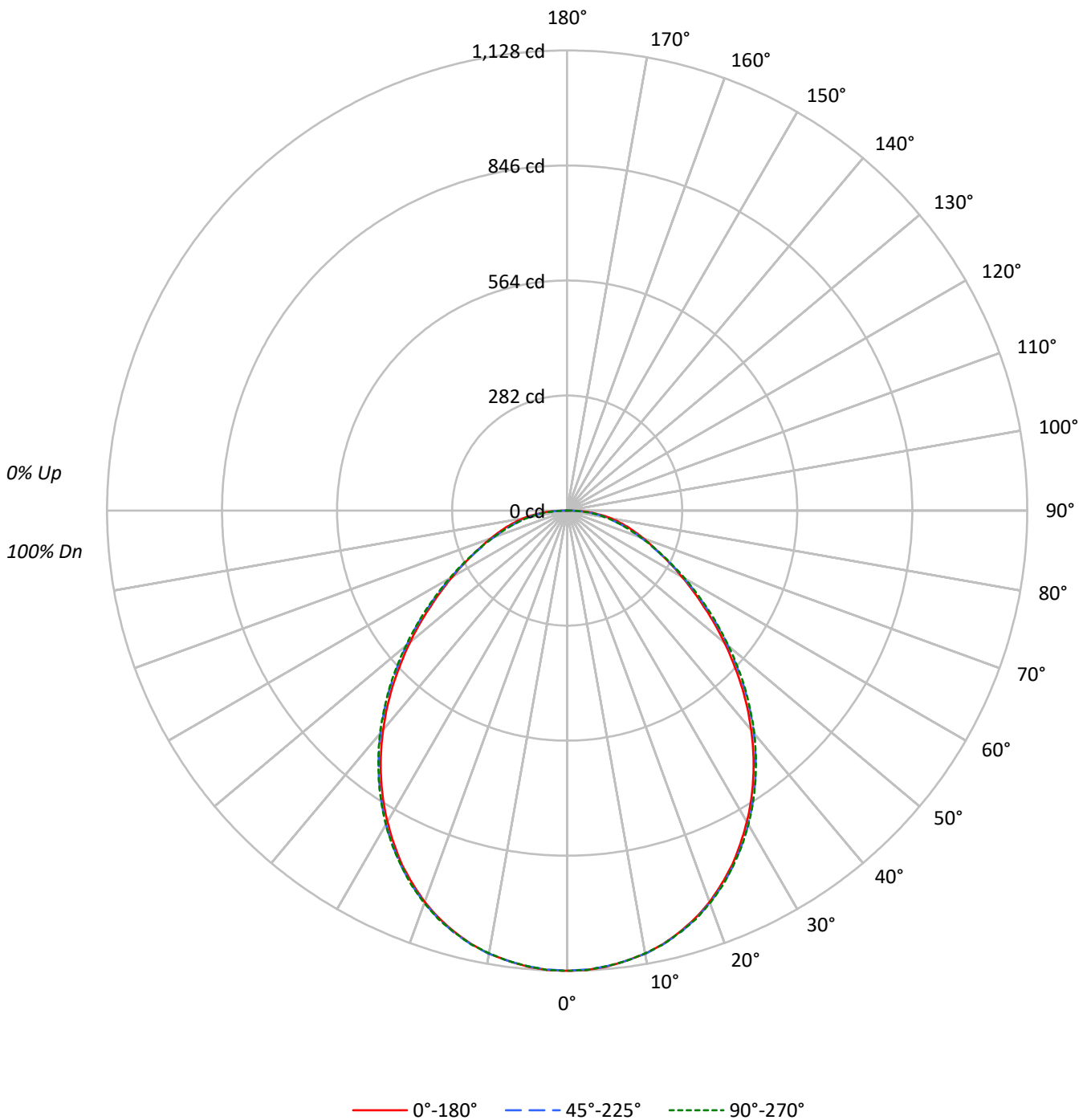
Lumens per Lamp: N/A
Luminaire Lumens: 2659.2 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 28.2
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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61					61			
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53					53			
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47					47			
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41					41			
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37					37			
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33					33			
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30					30			
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3035	3035	3035
5°	3031	3028	3028
10°	3014	3014	3011
15°	2978	2984	2981
20°	2924	2930	2932
25°	2844	2856	2856
30°	2738	2759	2762
35°	2615	2641	2644
40°	2466	2501	2508
45°	2295	2337	2348
50°	2106	2152	2160
55°	1914	1956	1975
60°	1749	1771	1792
65°	1617	1611	1630
70°	1566	1503	1519
75°	1580	1456	1456
80°	1689	1503	1472
85°	1883	1667	1606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	4.0
10°-20°	301.5	11.3
20°-30°	441.7	16.6
30°-40°	500.8	18.8
40°-50°	471.3	17.7
50°-60°	372.9	14.0
60°-70°	254.0	9.6
70°-80°	152.3	5.7
80°-90°	58.3	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	849.6	31.9
0°-40°	1350.4	50.8
0°-60°	2194.6	82.5
0°-90°	2659.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2659.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1122	1121	1121	1121	1121	106
15°	1069	1070	1071	1071	1070	301
25°	958	959	962	962	962	440
35°	796	799	804	805	805	497
45°	603	608	614	616	617	465
55°	408	411	417	420	421	367
65°	254	254	253	254	256	254
75°	152	147	140	139	140	161
85°	61	61	54	51	52	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128	1128	1128	1128	1128
2.5°	1127	1127	1126	1126	1127
5°	1122	1121	1121	1121	1121
7.5°	1113	1113	1113	1113	1113
10°	1103	1103	1103	1103	1102
12.5°	1088	1088	1089	1089	1089
15°	1069	1070	1071	1071	1070
17.5°	1047	1048	1049	1049	1050
20°	1021	1021	1023	1023	1024
22.5°	990	991	994	994	995
25°	958	959	962	962	962
27.5°	920	923	926	927	927
30°	881	883	888	889	889
32.5°	840	843	847	848	848
35°	796	799	804	805	805
37.5°	750	754	759	760	760
40°	702	706	712	714	714
42.5°	653	657	663	665	665
45°	603	608	614	616	617
47.5°	552	557	563	566	566
50°	503	507	514	516	516
52.5°	455	458	465	467	468
55°	408	411	417	420	421
57.5°	365	367	372	374	375
60°	325	326	329	331	333
62.5°	288	288	290	292	293
65°	254	254	253	254	256
67.5°	224	223	220	221	223
70°	199	196	191	191	193
72.5°	175	170	164	164	165
75°	152	147	140	139	140
77.5°	130	126	118	116	117
80°	109	104	97	95	95
82.5°	86	83	76	73	74
85°	61	61	54	51	52
87.5°	33	34	30	29	27
90°	0	0	0	0	0

(END OF REPORT)