

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: P22203

Luminaire Tested: **2GC-LD1-48-A-UNV-L835-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P22203
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC-LD1-48-A-UNV-L835-CD1-U
Description: METALUX 2x4 LED TROFFER WITH PRISMATIC FROST A12 DOOR
Light Source: 3500K LED
Ballast/Driver: -
LEDINTA2000C24D0

Summary

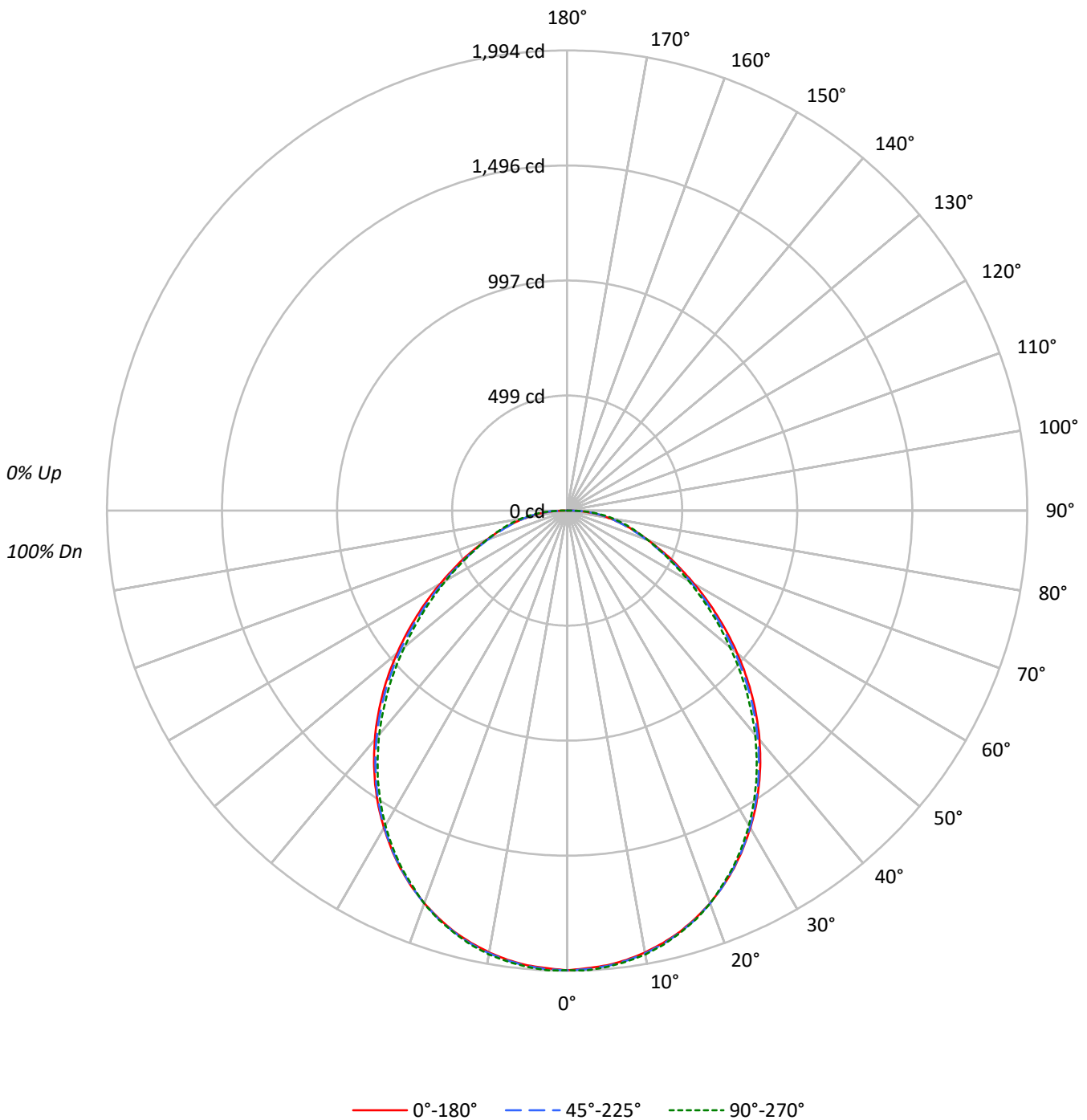
Lumens per Lamp: N/A
Luminaire Lumens: 4848.2 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.28
Luminous Opening: Rectangular (W 1.78' x L: 3.79' x H: 0')
CIE Type: Direct

Input Watts (W): 46.6
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	73	71
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56		66	60	55		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	53	49		58	52	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	29		38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3175	3175	3175
5°	3164	3169	3176
10°	3146	3152	3161
15°	3117	3122	3125
20°	3070	3073	3073
25°	3007	3003	2995
30°	2922	2917	2898
35°	2821	2807	2780
40°	2698	2673	2636
45°	2554	2518	2468
50°	2385	2343	2284
55°	2206	2156	2101
60°	2027	1973	1932
65°	1874	1810	1799
70°	1729	1687	1729
75°	1669	1638	1749
80°	1680	1707	1872
85°	1883	1938	2158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.1	3.9
10°-20°	533.2	11.0
20°-30°	785.6	16.2
30°-40°	900.2	18.6
40°-50°	860.0	17.7
50°-60°	695.4	14.3
60°-70°	481.9	9.9
70°-80°	289.8	6.0
80°-90°	113.9	2.4
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°	1506.9	31.1
0°-40°	2407.1	49.6
0°-60°	3962.6	81.7
0°-90°	4848.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4848.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1978	1980	1981	1984	1985	188
15°	1889	1891	1892	1895	1894	532
25°	1710	1711	1708	1705	1703	787
35°	1450	1451	1443	1434	1429	906
45°	1133	1131	1117	1101	1095	873
55°	794	791	776	761	756	711
65°	497	490	480	477	477	493
75°	271	268	266	277	284	289
85°	103	100	106	118	118	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1992	1992	1992	1992	1992
2.5°	1985	1987	1989	1993	1994
5°	1978	1980	1981	1984	1985
7.5°	1964	1966	1967	1971	1971
10°	1944	1946	1948	1952	1953
12.5°	1919	1921	1923	1927	1927
15°	1889	1891	1892	1895	1894
17.5°	1852	1854	1855	1857	1857
20°	1810	1812	1812	1813	1812
22.5°	1763	1764	1762	1762	1757
25°	1710	1711	1708	1705	1703
27.5°	1651	1653	1649	1645	1641
30°	1588	1590	1585	1578	1575
32.5°	1521	1523	1516	1509	1504
35°	1450	1451	1443	1434	1429
37.5°	1375	1375	1365	1356	1349
40°	1297	1297	1285	1274	1267
42.5°	1216	1215	1202	1188	1181
45°	1133	1131	1117	1101	1095
47.5°	1048	1046	1031	1015	1008
50°	962	960	945	928	921
52.5°	878	875	860	844	838
55°	794	791	776	761	756
57.5°	713	710	696	683	679
60°	636	632	619	608	606
62.5°	562	559	547	540	539
65°	497	490	480	477	477
67.5°	429	426	418	419	421
70°	371	368	362	368	371
72.5°	320	316	311	320	325
75°	271	268	266	277	284
77.5°	226	224	225	237	243
80°	183	183	186	197	204
82.5°	143	141	147	159	163
85°	103	100	106	118	118
87.5°	57	58	64	73	73
90°	0	0	0	0	0

(END OF REPORT)