

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: P30920

Luminaire Tested: **2GR8-2U6T8A-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30920
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GR8-2U6T8A-UNV-EB81
Description: METALUX 2' X 2' COMMERCIAL TROFFER WITH ACRYLIC PRISMATIC LENS
Light Source: (2) T8 U SHAPE FLUORESCENT LAMPS 4100K
GE F32T8-SPX41-U6-WM-ECO
Ballast/Driver: -
QUICKTRONICS QTP2x32T8/UNV ISN-SC

Summary

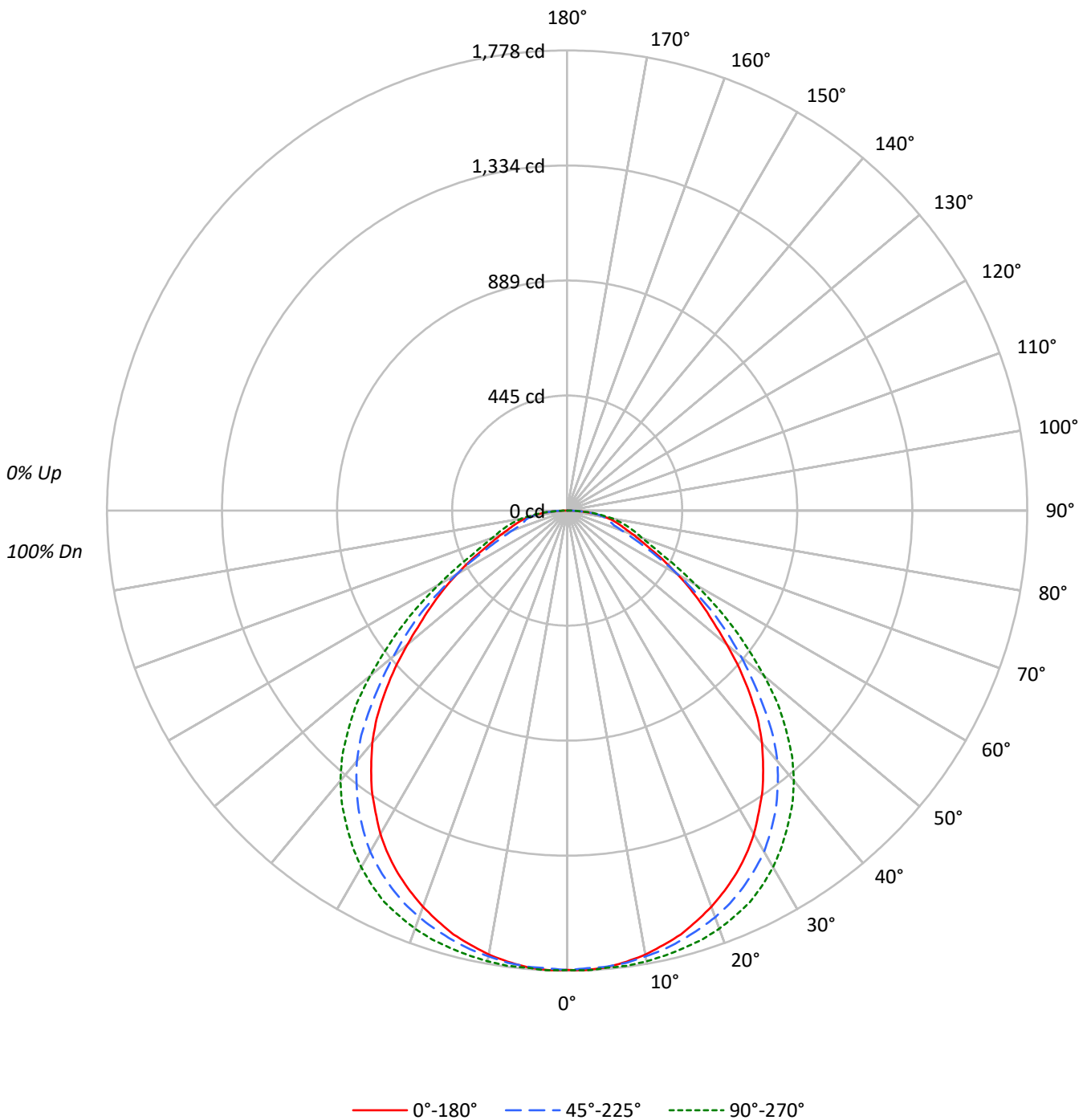
Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 4397.5 lumens
Efficiency: 77.1%
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.1
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	50	30	10	0	
RCR																						
0	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	77				77
1	84	81	78	75	82	79	77	74	76	74	72	73	71	69	70	69	67	66				66
2	77	72	67	63	75	70	66	62	67	64	60	65	62	59	63	60	58	56				56
3	71	63	58	53	69	62	57	52	60	55	51	58	54	51	56	53	50	48				48
4	65	57	50	45	64	56	50	45	54	49	45	52	48	44	50	47	43	42				42
5	60	51	44	40	59	50	44	39	49	43	39	47	42	39	46	41	38	37				37
6	56	46	40	35	55	45	39	35	44	39	34	43	38	34	42	37	34	32				32
7	52	42	36	31	51	41	35	31	40	35	31	39	34	30	38	34	30	29				29
8	49	38	32	28	47	38	32	28	37	31	28	36	31	27	35	31	27	26				26
9	45	35	29	25	44	35	29	25	34	29	25	33	28	25	32	28	25	23				23
10	43	33	27	23	42	32	27	23	32	26	23	31	26	23	30	26	22	21				21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4776	4776	4776
5°	4784	4779	4789
10°	4760	4779	4831
15°	4725	4783	4873
20°	4665	4788	4923
25°	4593	4771	4959
30°	4484	4729	4944
35°	4326	4619	4882
40°	4114	4440	4788
45°	3790	4091	4548
50°	3370	3671	4157
55°	2993	3228	3659
60°	2643	2664	3089
65°	2299	2101	2585
70°	2132	1762	2415
75°	2183	1820	2547
80°	2371	2263	2774
85°	2532	2655	2779



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	168.4	3.8	3.0	0°	1775	1775	1775	1775	1775	
10°-20°	485.5	11.0	8.5	5°	1771	1768	1769	1773	1773	168
20°-30°	739.9	16.8	13.0	15°	1696	1698	1717	1740	1749	478
30°-40°	875.2	19.9	15.4	25°	1547	1566	1607	1651	1670	712
40°-50°	833.6	19.0	14.6	35°	1317	1346	1406	1459	1486	821
50°-60°	626.1	14.2	11.0	45°	996	1015	1075	1153	1195	766
60°-70°	366.0	8.3	6.4	55°	638	653	688	756	780	573
70°-80°	212.4	4.8	3.7	65°	361	339	330	387	406	365
80°-90°	90.3	2.1	1.6	75°	210	186	175	207	245	222
90°-100°	0.0	0.0	0.0	85°	82	84	86	96	90	87
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°	1393.9	31.7	24.5							
0°-40°	2269.1	51.6	39.8							
0°-60°	3728.7	84.8	65.4							
0°-90°	4397.5	100.0	77.1							
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°	4397.5	100.0	77.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1775	1775	1775	1775	1775
2.5°	1777	1775	1770	1776	1778
5°	1771	1768	1769	1773	1773
7.5°	1758	1757	1762	1769	1774
10°	1742	1743	1749	1761	1768
12.5°	1719	1723	1736	1752	1760
15°	1696	1698	1717	1740	1749
17.5°	1663	1672	1696	1724	1737
20°	1629	1640	1672	1705	1719
22.5°	1590	1606	1643	1680	1695
25°	1547	1566	1607	1651	1670
27.5°	1498	1518	1567	1612	1633
30°	1443	1469	1522	1567	1591
32.5°	1379	1412	1466	1512	1542
35°	1317	1346	1406	1459	1486
37.5°	1244	1279	1337	1391	1429
40°	1171	1200	1264	1322	1363
42.5°	1089	1114	1177	1240	1286
45°	996	1015	1075	1153	1195
47.5°	903	913	973	1055	1103
50°	805	824	877	953	993
52.5°	715	736	781	857	883
55°	638	653	688	756	780
57.5°	564	566	587	659	674
60°	491	483	495	561	574
62.5°	424	404	406	462	484
65°	361	339	330	387	406
67.5°	311	286	270	322	349
70°	271	245	224	276	307
72.5°	236	214	190	238	275
75°	210	186	175	207	245
77.5°	184	162	164	181	212
80°	153	137	146	159	179
82.5°	120	113	118	133	133
85°	82	84	86	96	90
87.5°	40	47	45	48	42
90°	0	0	0	0	0

(END OF REPORT)