

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: P30943

Luminaire Tested: **2GR8IC-217A-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30943
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GR8IC-217A-UNV-EB81
Description: METALUX 2' X 2' COMMERCIAL TROFFER WITH ACRYLIC PRISMATIC LENS
IC RATED FOR DIRECT CONTACT WITH INSULATION
Light Source: (2) T8 LINEAR FLUORESCENT LAMPS 3500K
Ballast/Driver: -
QUICKTRONICS QTP2x32T8/UNV ISN-SC

Summary

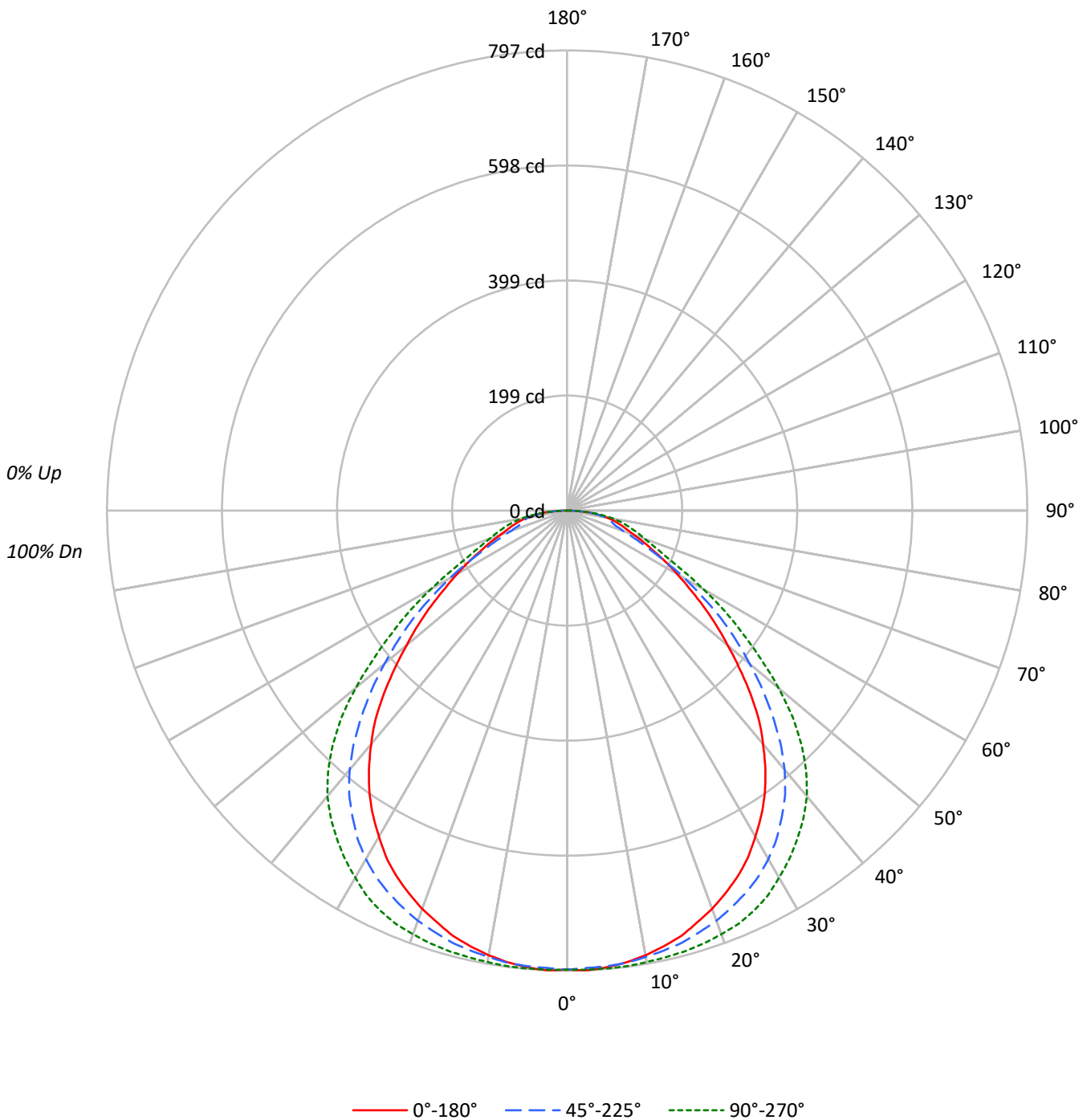
Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 2027.2 lumens
Efficiency: 75.1%
Efficacy: 68.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 29.6
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

TEST NUMBER: P30943

CATALOG NUMBER: 2GR8IC-217A-UNV-EB81

Luminous Intensity Polar Plot





TEST NUMBER: P30943

CATALOG NUMBER: 2GR8IC-217A-UNV-EB81

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	83	83	83		80	80	80		77	77	77	75
1	82	79	76	73	80	77	74	72	74	72	70		71	69	68		68	67	66	64
2	75	70	65	61	73	68	64	60	66	62	59		63	60	57		61	58	56	54
3	69	62	56	51	67	61	55	51	58	54	50		56	52	49		54	51	48	47
4	64	55	49	44	62	54	48	44	52	47	43		51	46	43		49	45	42	40
5	59	49	43	38	57	49	43	38	47	42	38		46	41	37		44	40	37	35
6	54	45	38	34	53	44	38	34	43	37	33		41	37	33		40	36	33	31
7	50	41	34	30	49	40	34	30	39	34	30		38	33	29		37	33	29	28
8	47	37	31	27	46	37	31	27	36	30	27		35	30	26		34	30	26	25
9	44	34	28	24	43	34	28	24	33	28	24		32	27	24		31	27	24	22
10	41	32	26	22	40	31	26	22	30	25	22		30	25	22		29	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2139	2139	2139
5°	2145	2139	2150
10°	2137	2145	2170
15°	2126	2156	2201
20°	2102	2165	2237
25°	2075	2170	2271
30°	2026	2166	2281
35°	1961	2129	2283
40°	1855	2059	2269
45°	1709	1914	2184
50°	1520	1729	2001
55°	1346	1525	1741
60°	1184	1265	1469
65°	1051	987	1203
70°	968	818	1125
75°	998	842	1164
80°	1085	1054	1271
85°	1173	1204	1235



TEST NUMBER: P30943

CATALOG NUMBER: 2GR8IC-217A-UNV-EB81

ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	75.5	3.7	2.8	0°	795	795	795	795	795	
10°-20°	218.8	10.8	8.1	5°	794	792	792	794	796	75
20°-30°	336.9	16.6	12.5	15°	763	765	774	784	790	215
30°-40°	403.6	19.9	14.9	25°	699	708	731	755	765	321
40°-50°	389.1	19.2	14.4	35°	597	614	648	679	695	372
50°-60°	293.7	14.5	10.9	45°	449	464	503	549	574	345
60°-70°	170.2	8.4	6.3	55°	287	299	325	364	371	258
70°-80°	98.0	4.8	3.6	65°	165	154	155	181	189	166
80°-90°	41.4	2.0	1.5	75°	96	86	81	96	112	101
90°-100°	0.0	0.0	0.0	85°	38	38	39	44	40	40
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°	631.2	31.1	23.4							
0°-40°	1034.8	51.0	38.3							
0°-60°	1717.6	84.7	63.6							
0°-90°	2027.2	100.0	75.1							
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°	2027.2	100.0	75.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795	795	795	795	795
2.5°	797	795	793	795	796
5°	794	792	792	794	796
7.5°	789	788	790	793	796
10°	782	782	785	791	794
12.5°	773	774	780	788	792
15°	763	765	774	784	790
17.5°	748	753	765	779	786
20°	734	740	756	773	781
22.5°	717	725	744	765	775
25°	699	708	731	755	765
27.5°	678	691	716	741	752
30°	652	667	697	723	734
32.5°	626	643	675	702	716
35°	597	614	648	679	695
37.5°	564	583	620	653	672
40°	528	547	586	624	646
42.5°	492	508	547	589	613
45°	449	464	503	549	574
47.5°	405	419	459	502	530
50°	363	376	413	457	478
52.5°	325	337	369	410	424
55°	287	299	325	364	371
57.5°	251	261	278	315	323
60°	220	219	235	265	273
62.5°	192	184	192	220	226
65°	165	154	155	181	189
67.5°	144	129	127	152	163
70°	123	112	104	129	143
72.5°	108	97	88	111	127
75°	96	86	81	96	112
77.5°	84	74	76	84	98
80°	70	63	68	74	82
82.5°	54	52	54	62	62
85°	38	38	39	44	40
87.5°	19	21	20	22	19
90°	0	0	0	0	0

(END OF REPORT)