

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: P30921

Luminaire Tested: **2GR8-2U6T8A19/156-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30921
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GR8-2U6T8A19/156-UNV-EB81
Description: METALUX 2' X 2' COMMERCIAL TROFFER W/ ACRYLIC PRISMATIC LENS, TYPE
19, 0.156" THK
Light Source: (2) T8 U SHAPE FLUORESCENT LAMPS 4100K
GE F32T8-SPX41-U6-WM-ECO
Ballast/Driver: -
QUICKTRONICS QTP2x32T8/UNV ISN-SC

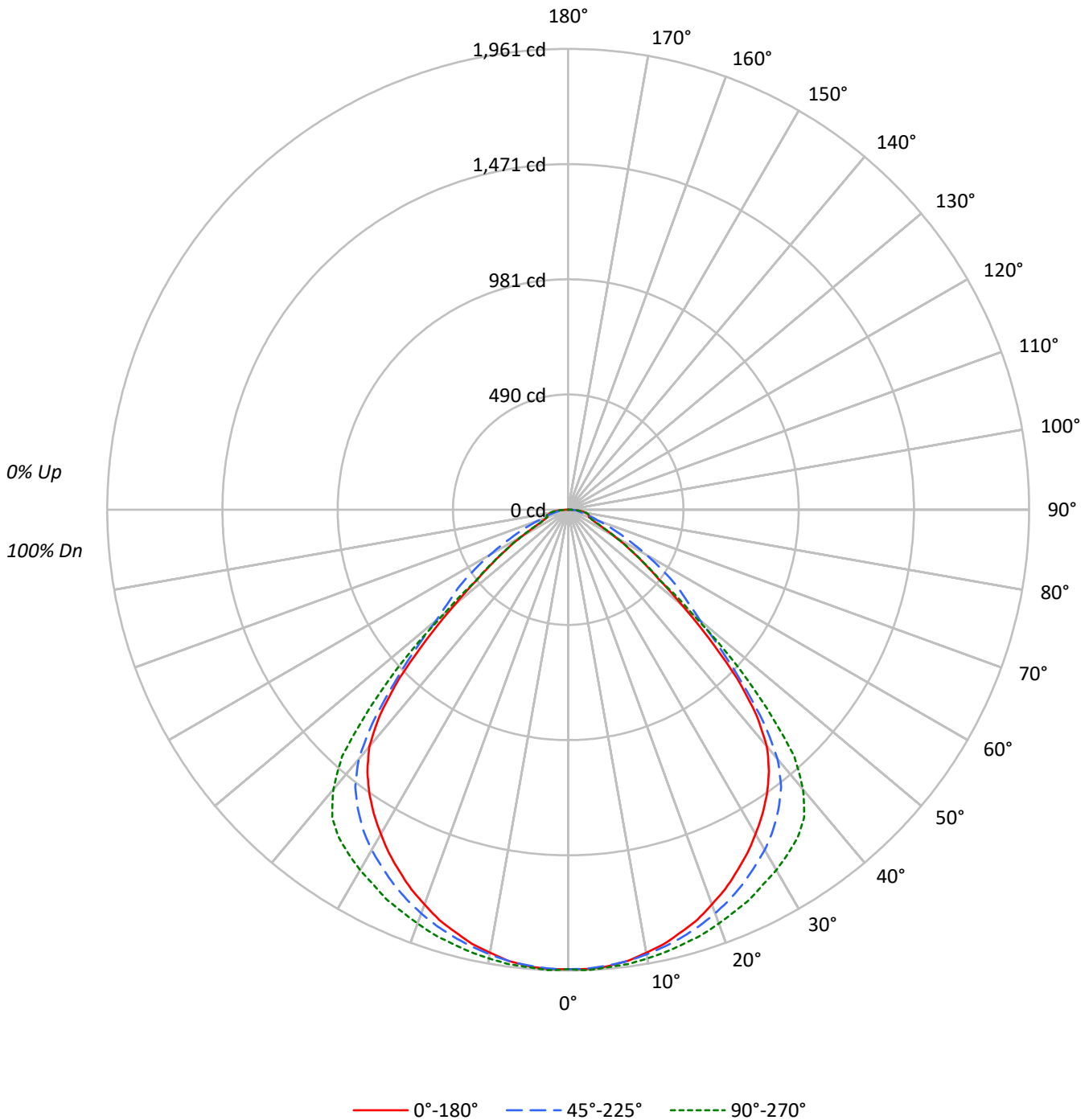
Summary

Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 4211.0 lumens
Efficiency: 73.9%
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.35 / 1.31
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									
RC	80									70									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	88	88	88	88	86	86	86	86	82	82	82	79	79	79	75	75	75	74						74													
1	82	79	76	74	80	77	75	73	74	72	70	71	70	68	69	67	66	65						65													
2	76	70	66	63	74	69	65	62	67	63	60	64	61	59	62	60	58	56						56													
3	70	63	58	54	68	62	57	53	60	56	52	58	54	52	56	53	51	49						49													
4	65	57	51	47	63	56	51	47	54	50	46	53	49	45	51	48	45	43						43													
5	60	52	46	41	59	51	45	41	49	44	41	48	44	40	47	43	40	38						38													
6	56	47	41	37	54	46	41	37	45	40	36	44	39	36	43	39	36	34						34													
7	52	43	37	33	51	42	37	33	41	36	33	40	36	32	39	35	32	31						31													
8	49	39	34	30	47	39	33	30	38	33	29	37	33	29	36	32	29	28						28													
9	45	36	31	27	44	36	31	27	35	30	27	34	30	27	34	29	26	25						25													
10	43	34	28	25	42	33	28	24	33	28	24	32	27	24	31	27	24	23						23													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5264	5264	5264
5°	5267	5259	5278
10°	5230	5249	5298
15°	5182	5243	5324
20°	5117	5235	5367
25°	5042	5220	5431
30°	4953	5195	5503
35°	4842	5121	5591
40°	4619	4869	5462
45°	3867	3992	4544
50°	2642	3060	2889
55°	1802	2632	1834
60°	1238	2056	1254
65°	821	1535	834
70°	747	1062	771
75°	946	873	988
80°	1162	775	1209
85°	1359	1142	1359



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	185.3	4.4	3.3	0°	1956	1956	1956	1956	1956	
10°-20°	532.0	12.6	9.3	5°	1950	1945	1947	1953	1954	185
20°-30°	811.5	19.3	14.2	15°	1860	1865	1882	1903	1911	525
30°-40°	979.5	23.3	17.2	25°	1698	1714	1758	1805	1829	782
40°-50°	836.6	19.9	14.7	35°	1474	1495	1559	1655	1702	918
50°-60°	449.3	10.7	7.9	45°	1016	1057	1049	1196	1194	765
60°-70°	234.2	5.6	4.1	55°	384	500	561	512	391	357
70°-80°	132.9	3.2	2.3	65°	129	272	241	275	131	140
80°-90°	49.6	1.2	0.9	75°	91	168	84	167	95	93
90°-100°	0.0	0.0	0.0	85°	44	58	37	54	44	45
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°	1528.8	36.3	26.8							
0°-40°	2508.3	59.6	44.0							
0°-60°	3794.3	90.1	66.6							
0°-90°	4211.0	100.0	73.9							
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°	4211.0	100.0	73.9							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1956	1956	1956	1956	1956
2.5°	1956	1956	1954	1957	1961
5°	1950	1945	1947	1953	1954
7.5°	1937	1933	1937	1944	1950
10°	1914	1916	1921	1934	1939
12.5°	1892	1893	1903	1919	1927
15°	1860	1865	1882	1903	1911
17.5°	1829	1833	1857	1883	1896
20°	1787	1800	1828	1859	1874
22.5°	1747	1761	1795	1834	1851
25°	1698	1714	1758	1805	1829
27.5°	1649	1671	1715	1774	1797
30°	1594	1615	1672	1737	1771
32.5°	1537	1559	1620	1697	1738
35°	1474	1495	1559	1655	1702
37.5°	1403	1423	1488	1595	1649
40°	1315	1331	1386	1511	1555
42.5°	1186	1206	1233	1381	1423
45°	1016	1057	1049	1196	1194
47.5°	814	892	883	975	954
50°	631	725	731	771	690
52.5°	485	602	635	635	494
55°	384	500	561	512	391
57.5°	305	424	470	432	306
60°	230	364	382	369	233
62.5°	170	315	304	317	174
65°	129	272	241	275	131
67.5°	108	232	183	243	108
70°	95	206	135	218	98
72.5°	92	189	109	193	96
75°	91	168	84	167	95
77.5°	83	137	63	138	87
80°	75	104	50	104	78
82.5°	63	77	41	77	62
85°	44	58	37	54	44
87.5°	22	35	23	32	20
90°	0	0	0	0	0

(END OF REPORT)