

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: P30919

Luminaire Tested: **2GC8-2U6T8A19/156-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30919
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC8-2U6T8A19/156-UNV-EB81
Description: METALUX 2' X 2' SPECIFICATION GRADE RECESSED FLUORESCENT TROFFER
WITH HIGH REFLECTANCE WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS, TYPE #19,
0.156" THICK
Light Source: (2) T8 U SHAPE FLUORESCENT LAMPS 4100K
GE F32T8-SPX41-U6-WM-ECO
Ballast/Driver: -
QUICKTRONICS QTP2x32T8/UNV ISN-SC

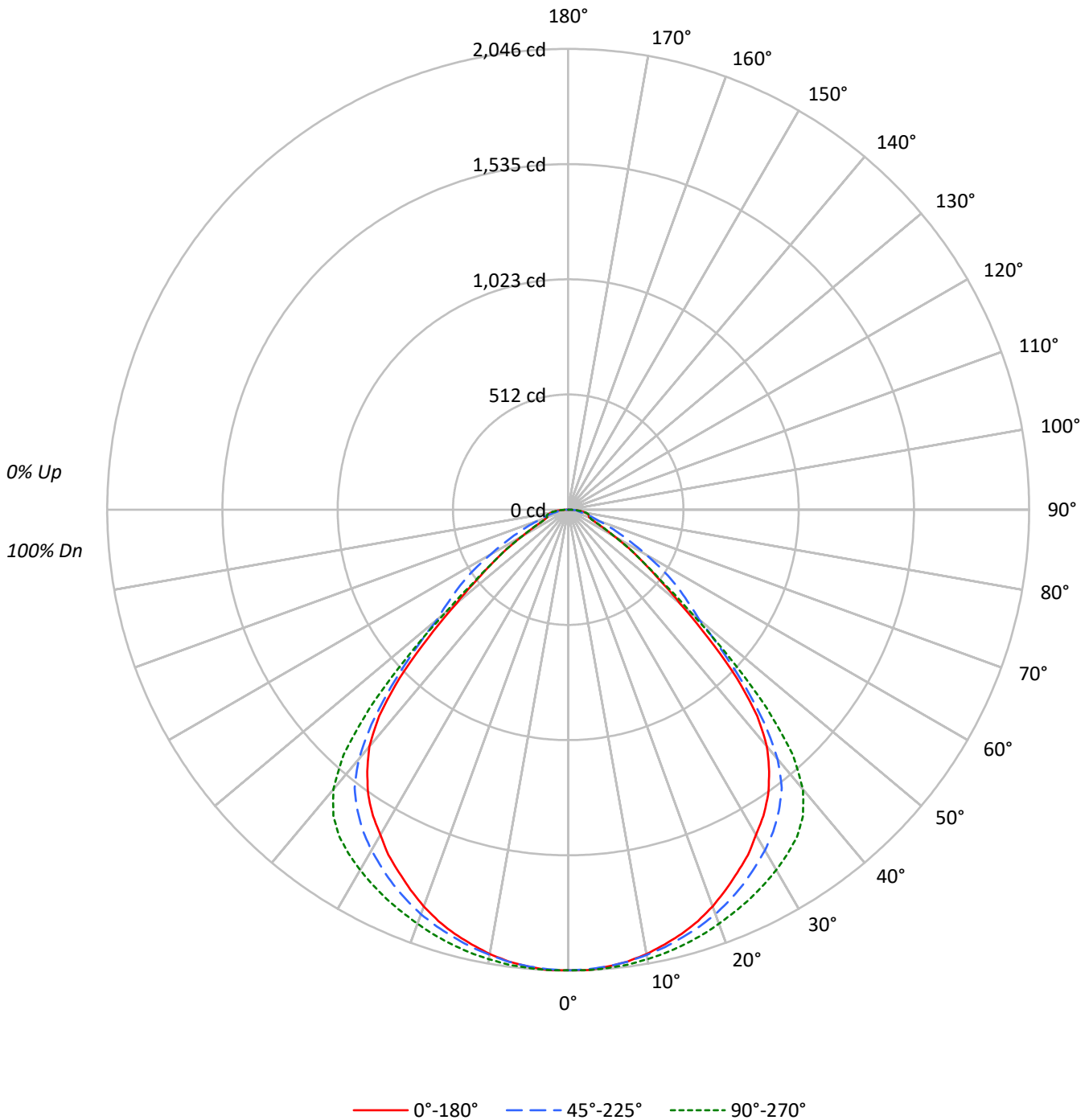
Summary

Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 4396.2 lumens
Efficiency: 77.1%
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.34 / 1.31
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.2
Input Voltage (V): NR
Input Current (A_{in}): 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	85	82	79	77	83	81	78	76	77	75	73	74	73	71	72	70	69				68	
2	79	74	69	65	77	72	68	65	69	66	63	67	64	62	65	62	60				59	
3	73	66	61	56	71	65	60	56	63	58	55	61	57	54	59	56	53				51	
4	68	59	54	49	66	58	53	49	57	52	48	55	51	47	53	50	47				45	
5	63	54	48	43	61	53	47	43	51	46	42	50	46	42	49	45	42				40	
6	58	49	43	38	57	48	42	38	47	42	38	46	41	38	45	40	37				36	
7	54	45	39	34	53	44	38	34	43	38	34	42	37	34	41	37	34				32	
8	51	41	35	31	50	41	35	31	40	34	31	39	34	31	38	34	30				29	
9	48	38	32	28	46	37	32	28	37	31	28	36	31	28	35	31	28				26	
10	45	35	29	26	44	35	29	26	34	29	25	33	29	25	33	28	25				24	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5503	5503	5503
5°	5500	5497	5516
10°	5473	5484	5536
15°	5430	5474	5566
20°	5367	5472	5601
25°	5276	5454	5662
30°	5180	5425	5739
35°	5082	5358	5818
40°	4820	5080	5694
45°	4030	4224	4742
50°	2713	3182	2972
55°	1900	2745	1909
60°	1265	2147	1281
65°	860	1611	860
70°	779	1125	803
75°	988	915	1029
80°	1209	806	1255
85°	1389	1204	1451



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	193.6	4.4	3.4	0°	2045	2045	2045	2045	2045	
10°-20°	555.9	12.6	9.8	5°	2036	2035	2035	2040	2042	193
20°-30°	848.0	19.3	14.9	15°	1949	1948	1965	1988	1998	549
30°-40°	1023.8	23.3	18.0	25°	1777	1796	1837	1884	1907	819
40°-50°	872.3	19.8	15.3	35°	1547	1569	1631	1726	1771	961
50°-60°	469.1	10.7	8.2	45°	1059	1106	1110	1235	1246	796
60°-70°	244.4	5.6	4.3	55°	405	528	585	539	407	373
70°-80°	137.5	3.1	2.4	65°	135	284	253	288	135	146
80°-90°	51.7	1.2	0.9	75°	95	171	88	171	99	97
90°-100°	0.0	0.0	0.0	85°	45	60	39	57	47	47
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°	1597.5	36.3	28.0							
0°-40°	2621.3	59.6	46.0							
0°-60°	3962.6	90.1	69.5							
0°-90°	4396.2	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°	4396.2	100.0	77.1							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2045	2045	2045	2045	2045
2.5°	2046	2042	2042	2045	2046
5°	2036	2035	2035	2040	2042
7.5°	2023	2021	2024	2032	2037
10°	2003	2001	2007	2019	2026
12.5°	1977	1977	1989	2004	2014
15°	1949	1948	1965	1988	1998
17.5°	1915	1918	1940	1967	1979
20°	1874	1881	1911	1941	1956
22.5°	1827	1841	1875	1914	1932
25°	1777	1796	1837	1884	1907
27.5°	1728	1745	1792	1851	1878
30°	1667	1693	1746	1813	1847
32.5°	1612	1632	1694	1775	1812
35°	1547	1569	1631	1726	1771
37.5°	1465	1493	1557	1664	1712
40°	1372	1392	1446	1572	1621
42.5°	1242	1263	1292	1429	1475
45°	1059	1106	1110	1235	1246
47.5°	843	931	924	1025	968
50°	648	750	760	810	710
52.5°	510	625	666	654	525
55°	405	528	585	539	407
57.5°	320	442	494	449	319
60°	235	383	399	383	238
62.5°	178	329	317	332	183
65°	135	284	253	288	135
67.5°	112	239	195	252	111
70°	99	214	143	224	102
72.5°	96	195	115	199	100
75°	95	171	88	171	99
77.5°	87	141	66	140	91
80°	78	108	52	107	81
82.5°	66	81	43	81	66
85°	45	60	39	57	47
87.5°	23	34	24	33	22
90°	0	0	0	0	0

(END OF REPORT)