

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: P30886

Luminaire Tested: **2GC8-232A19/156-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30886
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC8-232A19/156-UNV-EB81
Description: METALUX 2' X 4' SPECIFICATION GRADE RECESSED FLUORESCENT TROFFER
WITH HIGH REFLECTANCE WHITE INTERIOR FINISH AND ACRYLIC PRISMATIC LENS, TYPE #19,
0.156" THICK
Light Source: (2) T8 LINEAR FLUORESCENT LAMPS
Ballast/Driver: -
QTP3x32T8/UNV ISN-SC

Summary

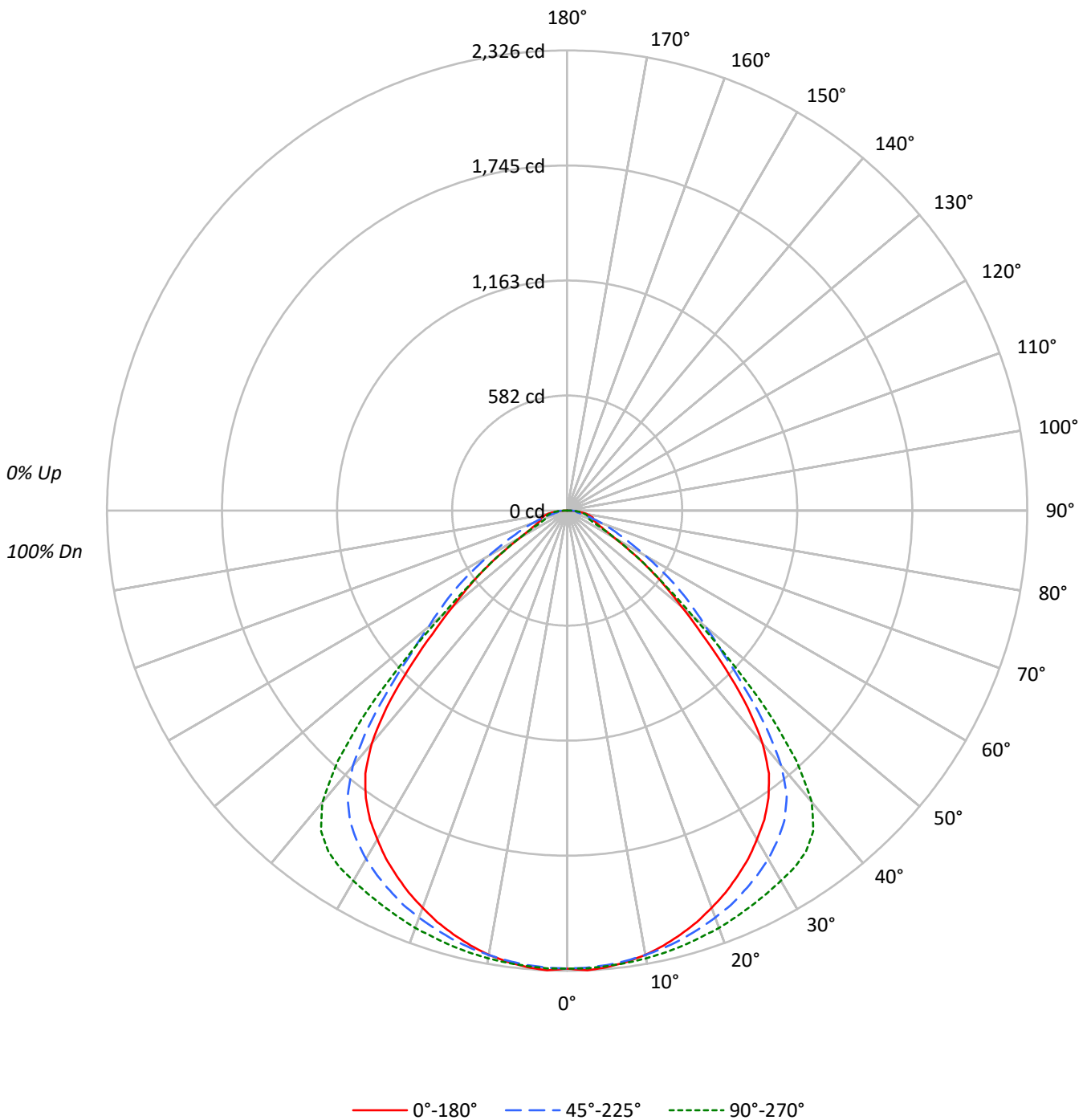
Lumens per Lamp: 3100 (2 lamps)
Luminaire Lumens: 5108.8 lumens
Efficiency: 82.4%
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.32
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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	0
RCR																				
0	98	98	98	98	96	96	96	96	92	92	92		88	88	88		84	84	84	82
1	91	88	85	82	89	86	83	81	83	80	78		79	78	76		76	75	74	72
2	84	78	74	70	82	77	73	69	74	70	67		71	68	66		69	67	64	63
3	78	70	64	60	76	69	64	59	67	62	58		64	61	57		62	59	56	55
4	72	63	57	52	70	62	56	52	60	55	51		58	54	50		57	53	50	48
5	67	57	51	46	65	56	50	46	55	49	45		53	48	45		52	48	44	43
6	62	52	45	41	61	51	45	41	50	44	40		49	44	40		47	43	40	38
7	58	48	41	36	56	47	41	36	46	40	36		45	40	36		44	39	36	34
8	54	44	37	33	53	43	37	33	42	37	33		41	36	32		40	36	32	31
9	51	40	34	30	49	40	34	30	39	33	30		38	33	29		37	33	29	28
10	47	37	31	27	46	37	31	27	36	31	27		35	30	27		35	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3715	3715	3715
5°	3732	3714	3722
10°	3715	3716	3744
15°	3684	3726	3779
20°	3647	3738	3833
25°	3608	3753	3902
30°	3555	3767	4004
35°	3475	3749	4121
40°	3219	3529	4030
45°	2573	2884	3245
50°	1882	2284	2057
55°	1379	1913	1376
60°	879	1473	895
65°	683	1120	588
70°	666	873	535
75°	818	595	663
80°	933	480	813
85°	902	902	994



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	219.5	4.3	3.5	0°	2315	2315	2315	2315	2315	
10°-20°	633.5	12.4	10.2	5°	2317	2306	2306	2305	2311	220
20°-30°	977.6	19.1	15.8	15°	2218	2219	2243	2260	2275	626
30°-40°	1196.4	23.4	19.3	25°	2038	2058	2120	2174	2204	939
40°-50°	1006.3	19.7	16.2	35°	1774	1815	1914	2045	2104	1100
50°-60°	557.8	10.9	9.0	45°	1134	1268	1271	1434	1430	873
60°-70°	294.4	5.8	4.7	55°	493	612	684	666	492	443
70°-80°	160.0	3.1	2.6	65°	180	338	295	360	155	188
80°-90°	62.3	1.2	1.0	75°	132	185	96	198	107	135
90°-100°	1.2	0.0	0.0	85°	49	74	49	66	54	52
100°-110°	0.0	0.0	0.0	90°	2	9	9	11	8	4
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1830.5	35.8	29.5	165°	0	0	0	0	0	0
0°-40°	3026.9	59.2	48.8	175°	0	0	0	0	0	0
0°-60°	4591.0	89.9	74.0	180°	0	0	0	0	0	0
0°-90°	5107.7	100.0	82.4							
90°-120°	1.2	0.0	0.0							
90°-150°	1.2	0.0	0.0							
90°-180°	1.0	0.0	0.0							
0°-180°	5108.8	100.0	82.4							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2315	2315	2315	2315	2315
2.5°	2326	2315	2312	2309	2316
5°	2317	2306	2306	2305	2311
7.5°	2301	2292	2295	2298	2306
10°	2280	2273	2281	2287	2298
12.5°	2252	2249	2264	2276	2288
15°	2218	2219	2243	2260	2275
17.5°	2181	2186	2217	2242	2259
20°	2136	2149	2189	2223	2245
22.5°	2091	2107	2159	2201	2225
25°	2038	2058	2120	2174	2204
27.5°	1983	2009	2079	2147	2183
30°	1919	1952	2033	2118	2161
32.5°	1854	1889	1979	2086	2139
35°	1774	1815	1914	2045	2104
37.5°	1675	1723	1823	1982	2043
40°	1537	1604	1685	1869	1924
42.5°	1352	1449	1493	1690	1713
45°	1134	1268	1271	1434	1430
47.5°	924	1074	1069	1182	1102
50°	754	896	915	953	824
52.5°	617	742	797	793	635
55°	493	612	684	666	492
57.5°	370	505	567	565	374
60°	274	426	459	485	279
62.5°	215	374	368	414	204
65°	180	338	295	360	155
67.5°	158	300	238	312	128
70°	142	258	186	273	114
72.5°	140	217	137	237	109
75°	132	185	96	198	107
77.5°	116	156	67	160	100
80°	101	125	52	126	88
82.5°	79	98	48	94	73
85°	49	74	49	66	54
87.5°	22	44	36	37	29
90°	2	9	9	11	8
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)