

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: P30946

Luminaire Tested: **2GC8-217A19/156-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30946
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GC8-217A19/156-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 LINEAR FLUORESCENT LAMPS 3500K
Ballast/Driver: -
QUICKTRONICS QTP2x32T8/UNV ISN-SC

Summary

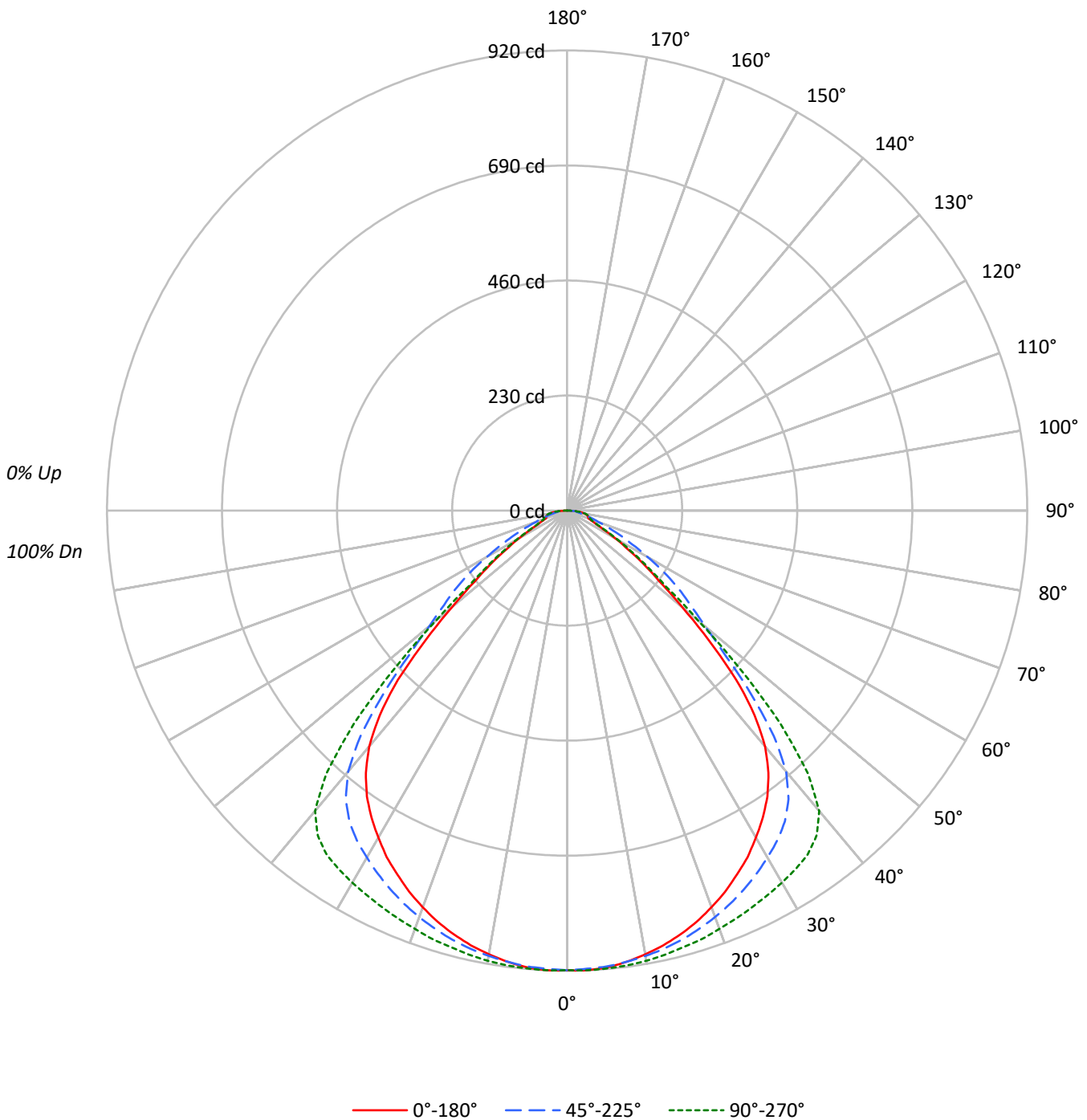
Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 2029.5 lumens
Efficiency: 75.2%
Efficacy: 68.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.4 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 29.6
Input Voltage (V): NR
Input Current (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	89	89	89	89	87	87	87	87	84	84	84		80	80	80		77	77	77	75
1	83	80	77	75	81	78	76	74	75	73	71		72	71	69		70	68	67	66
2	77	72	67	64	75	70	66	63	68	64	61		65	62	60		63	61	59	57
3	71	64	59	55	69	63	58	54	61	57	53		59	55	52		57	54	51	50
4	66	58	52	48	64	57	51	47	55	50	47		53	49	46		52	48	45	44
5	61	52	46	42	59	51	46	42	50	45	41		49	44	41		47	43	40	39
6	57	48	41	37	55	47	41	37	46	40	37		44	40	36		43	39	36	35
7	53	43	37	33	52	43	37	33	42	37	33		41	36	33		40	36	32	31
8	49	40	34	30	48	39	34	30	38	33	30		38	33	30		37	32	29	28
9	46	37	31	27	45	36	31	27	35	30	27		35	30	27		34	30	27	25
10	43	34	28	25	42	34	28	25	33	28	25		32	28	24		32	27	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2473	2473	2473
5°	2477	2472	2482
10°	2462	2470	2497
15°	2443	2474	2516
20°	2417	2477	2549
25°	2384	2482	2598
30°	2346	2489	2669
35°	2293	2493	2756
40°	2164	2392	2754
45°	1819	1987	2295
50°	1256	1503	1432
55°	877	1276	920
60°	597	1001	630
65°	408	745	420
70°	354	519	386
75°	457	426	478
80°	558	372	589
85°	648	556	648



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	87.1	4.3	3.2	0°	919	919	919	919	919	
10°-20°	251.1	12.4	9.3	5°	917	915	915	917	919	87
20°-30°	386.5	19.0	14.3	15°	877	880	888	897	903	247
30°-40°	474.8	23.4	17.6	25°	803	813	836	862	875	370
40°-50°	408.8	20.1	15.1	35°	698	714	759	812	839	434
50°-60°	219.0	10.8	8.1	45°	478	509	522	587	603	360
60°-70°	114.3	5.6	4.2	55°	187	243	272	251	196	171
70°-80°	64.2	3.2	2.4	65°	64	133	117	134	66	68
80°-90°	23.7	1.2	0.9	75°	44	80	41	80	46	45
90°-100°	0.0	0.0	0.0	85°	21	28	18	26	21	21
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°	724.7	35.7	26.8							
0°-40°	1199.5	59.1	44.4							
0°-60°	1827.3	90.0	67.7							
0°-90°	2029.5	100.0	75.2							
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°	2029.5	100.0	75.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919	919	919	919	919
2.5°	920	918	917	919	920
5°	917	915	915	917	919
7.5°	910	909	910	914	917
10°	901	902	904	910	914
12.5°	890	891	897	904	909
15°	877	880	888	897	903
17.5°	862	867	877	891	898
20°	844	850	865	882	890
22.5°	825	833	851	872	883
25°	803	813	836	862	875
27.5°	781	793	819	852	867
30°	755	769	801	840	859
32.5°	728	743	782	827	850
35°	698	714	759	812	839
37.5°	661	681	727	790	819
40°	616	639	681	751	784
42.5°	555	581	612	685	712
45°	478	509	522	587	603
47.5°	384	429	430	477	470
50°	300	347	359	381	342
52.5°	233	290	310	307	247
55°	187	243	272	251	196
57.5°	144	208	230	210	152
60°	111	180	186	179	117
62.5°	82	155	147	154	87
65°	64	133	117	134	66
67.5°	52	113	89	118	55
70°	45	99	66	105	49
72.5°	44	91	53	94	48
75°	44	80	41	80	46
77.5°	40	66	31	66	42
80°	36	50	24	50	38
82.5°	29	37	20	37	31
85°	21	28	18	26	21
87.5°	10	16	10	15	11
90°	0	0	0	0	0

(END OF REPORT)