

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: P30948

Luminaire Tested: **2GR8-317A19/156-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30948
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GR8-317A19/156-UNV-EB81
Description: METALUX 2' X 2' COMMERCIAL TROFFER W/ ACRYLIC PRISMATIC LENS, TYPE
19, 0.156" THK
Light Source: (3) T8 LINEAR FLUORESCENT LAMPS 3500K
Ballast/Driver: -
QUICKTRONICS QTP3x32T8/UNV ISN-SC

Summary

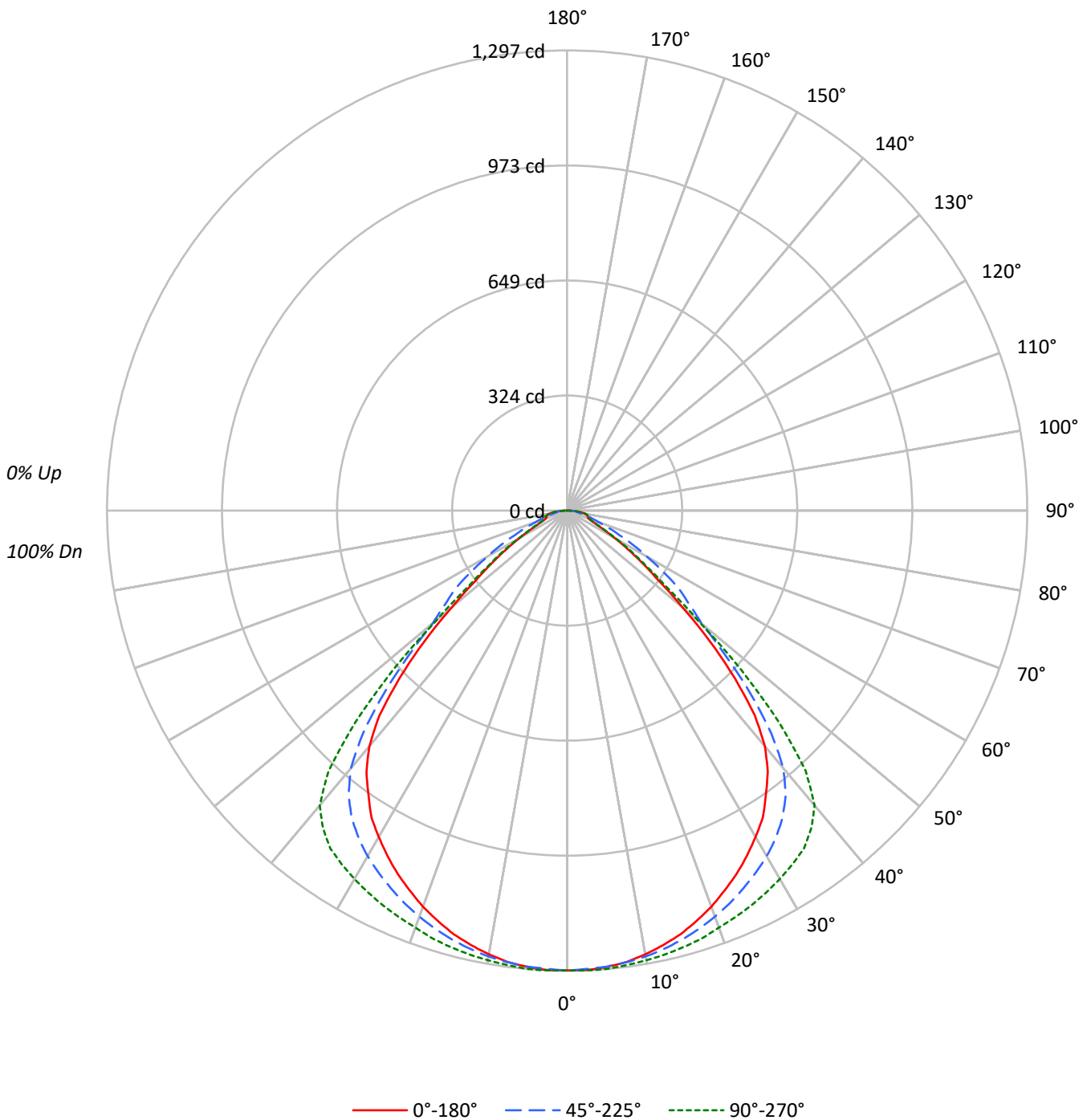
Lumens per Lamp: 1350 (3 lamps)
Luminaire Lumens: 2842.5 lumens
Efficiency: 70.2%
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.38 / 1.32
Luminous Opening: Rectangular (W 1.75' x L: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 42.8
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				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	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	70
1	78	75	72	70	76	73	71	69	70	68	67	68	66	65	65	64	63	61
2	72	67	63	59	70	66	62	59	63	60	57	61	58	56	59	57	55	53
3	66	60	55	51	65	59	54	51	57	53	50	55	52	49	53	50	48	47
4	61	54	49	44	60	53	48	44	51	47	44	50	46	43	48	45	42	41
5	57	49	43	39	56	48	43	39	47	42	38	45	41	38	44	41	38	36
6	53	44	39	35	52	44	38	35	43	38	34	41	37	34	40	37	34	32
7	49	41	35	31	48	40	35	31	39	34	31	38	34	31	37	33	30	29
8	46	37	32	28	45	37	32	28	36	31	28	35	31	28	34	30	27	26
9	43	34	29	25	42	34	29	25	33	28	25	32	28	25	32	28	25	24
10	40	32	27	23	40	31	26	23	31	26	23	30	26	23	30	26	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4555	4555	4555
5°	4555	4551	4576
10°	4533	4554	4593
15°	4497	4556	4632
20°	4443	4556	4679
25°	4382	4557	4762
30°	4310	4566	4866
35°	4192	4540	4990
40°	3978	4350	4978
45°	3320	3643	4195
50°	2324	2701	2630
55°	1593	2359	1661
60°	1090	1828	1132
65°	732	1347	765
70°	647	956	699
75°	828	760	869
80°	1012	668	1053
85°	1129	1008	1250



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	122.8	4.3	3.0	0°	1296	1296	1296	1296	1296	
10°-20°	353.8	12.4	8.7	5°	1291	1290	1290	1294	1297	123
20°-30°	543.0	19.1	13.4	15°	1236	1240	1252	1266	1273	348
30°-40°	662.4	23.3	16.4	25°	1130	1144	1175	1211	1228	520
40°-50°	572.4	20.1	14.1	35°	977	999	1058	1127	1163	610
50°-60°	306.2	10.8	7.6	45°	668	710	733	833	844	507
60°-70°	158.8	5.6	3.9	55°	260	336	385	354	271	240
70°-80°	89.6	3.2	2.2	65°	88	182	162	187	92	95
80°-90°	33.4	1.2	0.8	75°	61	112	56	113	64	62
90°-100°	0.0	0.0	0.0	85°	28	39	25	37	31	29
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°	1019.7	35.9	25.2							
0°-40°	1682.1	59.2	41.5							
0°-60°	2560.7	90.1	63.2							
0°-90°	2842.5	100.0	70.2							
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°	2842.5	100.0	70.2							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1296	1296	1296	1296	1296
2.5°	1296	1294	1293	1296	1297
5°	1291	1290	1290	1294	1297
7.5°	1283	1281	1284	1290	1292
10°	1270	1271	1276	1283	1287
12.5°	1254	1256	1265	1276	1281
15°	1236	1240	1252	1266	1273
17.5°	1213	1220	1236	1254	1264
20°	1188	1197	1218	1242	1251
22.5°	1159	1173	1198	1227	1240
25°	1130	1144	1175	1211	1228
27.5°	1097	1115	1151	1193	1214
30°	1062	1079	1125	1174	1199
32.5°	1026	1044	1094	1153	1182
35°	977	999	1058	1127	1163
37.5°	929	951	1012	1095	1130
40°	867	893	948	1044	1085
42.5°	783	806	852	952	995
45°	668	710	733	833	844
47.5°	546	593	607	675	666
50°	425	486	494	545	481
52.5°	326	402	433	435	350
55°	260	336	385	354	271
57.5°	203	284	321	294	213
60°	155	245	260	249	161
62.5°	116	213	209	215	120
65°	88	182	162	187	92
67.5°	71	155	126	165	74
70°	63	137	93	148	68
72.5°	61	127	74	131	66
75°	61	112	56	113	64
77.5°	56	92	42	92	59
80°	50	71	33	72	52
82.5°	41	52	27	51	42
85°	28	39	25	37	31
87.5°	13	24	15	22	15
90°	0	0	0	0	0

(END OF REPORT)