

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: 160P114

Luminaire Tested: **GC-232A19/187**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 160P114
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: GC-232A19/187
Description: 1 X 4 Recessed Convertible Body Luminaire with a
.187 pattern 19 acrylic lens.
Light Source: Two - FO32/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: Triad B232IUNVHP-B Electronic

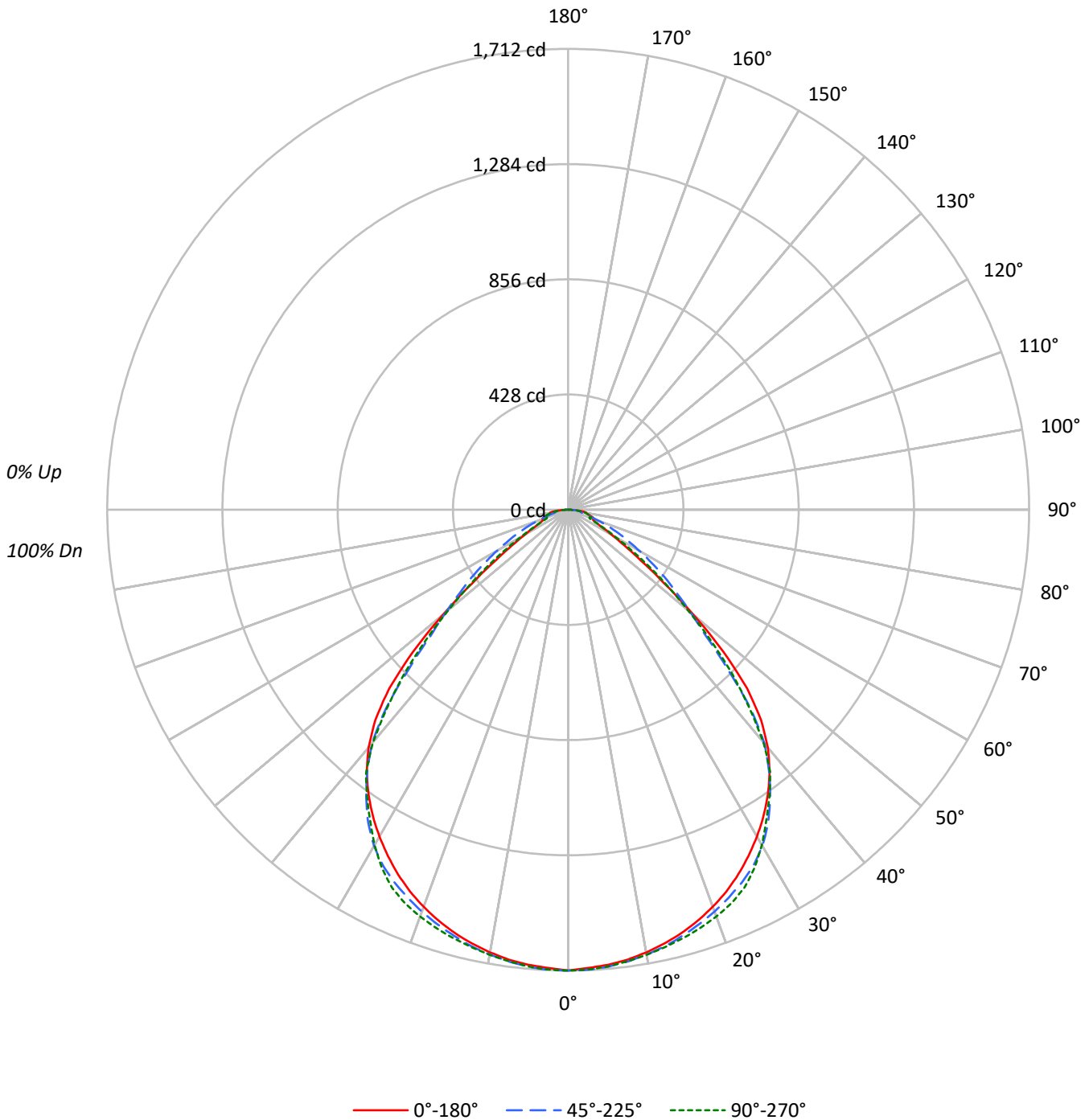
Summary

Lumens per Lamp: 2800 (2 lamps)
Luminaire Lumens: 3519.0 lumens
Efficiency: 62.8%
Efficacy: 62.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.27
Luminous Opening: Rectangular (W 0.79' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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	75	75	75	75	73	73	73	73	70	70	70		67	67	67		64	64	64	63
1	70	67	65	63	68	66	64	62	63	61	60		61	59	58		58	57	56	55
2	64	60	56	53	63	59	56	53	57	54	52		55	52	50		53	51	49	48
3	60	54	50	46	58	53	49	46	51	48	45		50	47	44		48	46	43	42
4	55	49	44	40	54	48	43	40	46	43	39		45	42	39		44	41	38	37
5	51	44	39	35	50	43	39	35	42	38	35		41	37	35		40	37	34	33
6	48	40	35	32	47	40	35	31	39	34	31		38	34	31		37	33	31	30
7	44	37	32	28	43	36	32	28	35	31	28		35	31	28		34	30	28	27
8	42	34	29	26	41	33	29	26	33	28	25		32	28	25		31	28	25	24
9	39	31	26	23	38	31	26	23	30	26	23		30	26	23		29	25	23	22
10	37	29	24	21	36	29	24	21	28	24	21		27	24	21		27	23	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6122	6122	6122
5°	6092	6117	6113
10°	6064	6093	6097
15°	6027	6068	6101
20°	5975	6047	6120
25°	5899	6025	6112
30°	5789	5955	5938
35°	5645	5710	5684
40°	5383	5294	5266
45°	4754	4238	4344
50°	3372	3288	3221
55°	2051	2725	2263
60°	1337	2181	1452
65°	965	1726	939
70°	1056	1234	878
75°	1147	884	1188
80°	1400	989	1277
85°	1559	1436	1231



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	161.7	4.6	2.9	0°	1712	1712	1712	1712	1712	
10°-20°	462.8	13.2	8.3	5°	1697	1700	1704	1708	1703	161
20°-30°	701.0	19.9	12.5	15°	1628	1632	1639	1649	1648	459
30°-40°	811.9	23.1	14.5	25°	1495	1501	1527	1549	1549	688
40°-50°	669.4	19.0	12.0	35°	1293	1309	1308	1302	1302	806
50°-60°	377.0	10.7	6.7	45°	940	914	838	835	859	703
60°-70°	187.5	5.3	3.3	55°	329	432	437	443	363	315
70°-80°	107.4	3.1	1.9	65°	114	191	204	218	111	124
80°-90°	40.2	1.1	0.7	75°	83	138	64	120	86	89
90°-100°	0.0	0.0	0.0	85°	38	43	35	39	30	38
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	2
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°	1325.5	37.7	23.7	165°	0	0	0	0	0	0
0°-40°	2137.4	60.7	38.2	175°	0	0	0	0	0	0
0°-60°	3183.9	90.5	56.9	180°	0	0	0	0	0	0
0°-90°	3519.0	100.0	62.8							
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°	3519.0	100.0	62.8							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1712	1712	1712	1712	1712
2.5°	1704	1707	1711	1714	1710
5°	1697	1700	1704	1708	1703
7.5°	1686	1690	1693	1696	1692
10°	1670	1674	1678	1682	1679
12.5°	1651	1654	1661	1666	1664
15°	1628	1632	1639	1649	1648
17.5°	1601	1605	1615	1628	1630
20°	1570	1575	1589	1606	1608
22.5°	1535	1540	1559	1582	1583
25°	1495	1501	1527	1549	1549
27.5°	1450	1460	1490	1503	1499
30°	1402	1414	1442	1444	1438
32.5°	1350	1365	1382	1374	1369
35°	1293	1309	1308	1302	1302
37.5°	1229	1244	1226	1228	1233
40°	1153	1162	1134	1125	1128
42.5°	1060	1056	1003	985	992
45°	940	914	838	835	859
47.5°	782	759	693	704	716
50°	606	629	591	605	579
52.5°	449	522	507	518	463
55°	329	432	437	443	363
57.5°	246	353	367	374	274
60°	187	288	305	313	203
62.5°	144	234	251	261	150
65°	114	191	204	218	111
67.5°	100	165	162	185	87
70°	101	158	118	158	84
72.5°	97	151	87	138	91
75°	83	138	64	120	86
77.5°	72	118	52	101	74
80°	68	93	48	81	62
82.5°	60	66	43	62	47
85°	38	43	35	39	30
87.5°	14	21	19	18	14
90°	0	0	0	0	0
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)