

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: ITL44648

Luminaire Tested: **RCG-SS-232**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: ITL44648
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: RCG-SS-232
Description: FABRICATED METAL STRIP BALLAST HOUSING, FABRICATED SPECULAR METAL REFLECTOR WITH BLACK PAINTED FABRICATED METAL END PIECES, OPEN BOTTOM.
Light Source: TWO 32-WATT F32T8-SPX35 FLUORESCENTS.
Ballast/Driver: MAGNETEK TRIAD B232I120RH (BALLAST FACTOR 88.1%). BALLAST FACTOR SUPPLIED BY CLIENT.

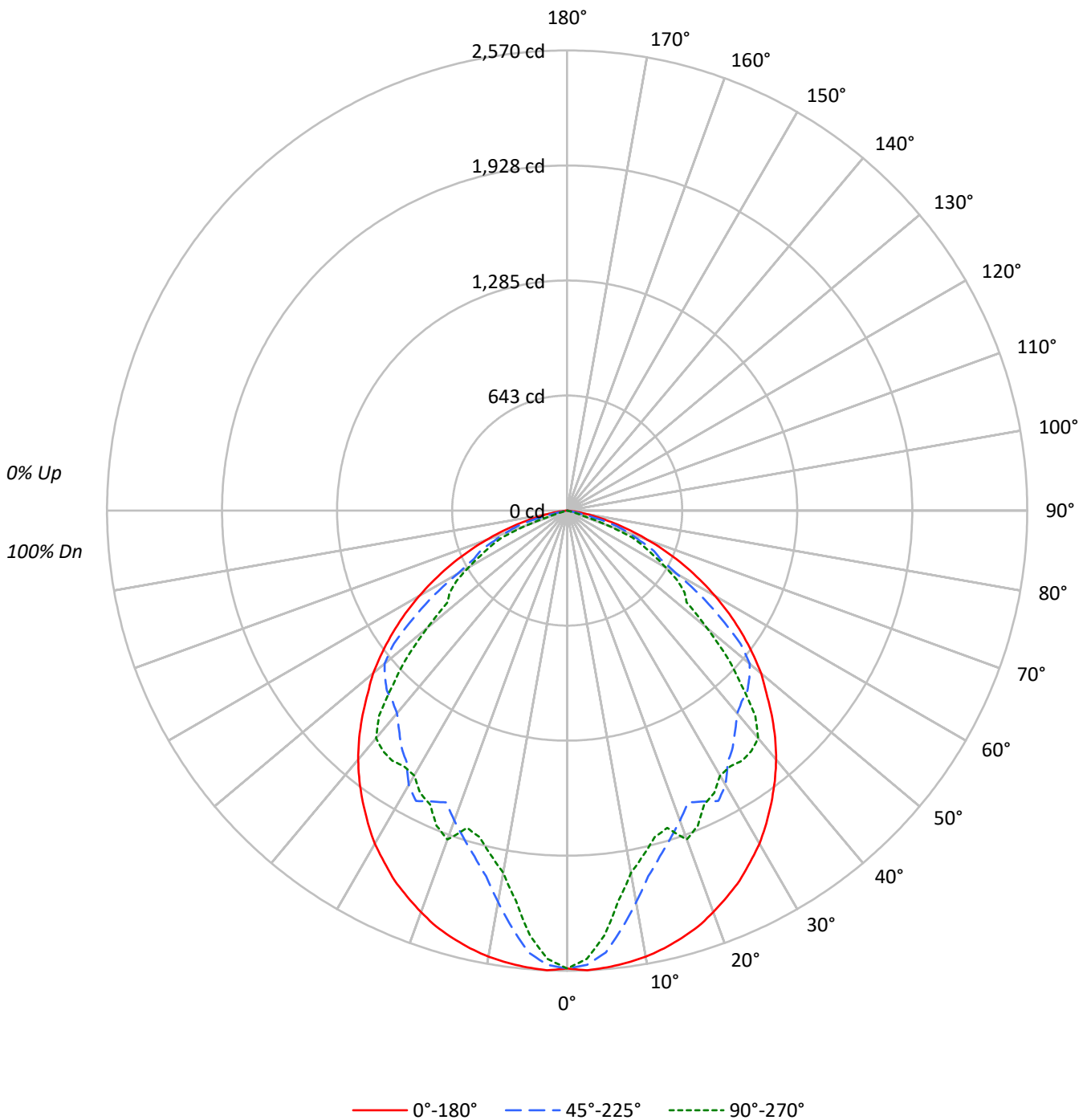
Summary

Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 5505.9 lumens
Efficiency: 93.3%
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1 / 1.23
Luminous Opening: Rectangular (W 0.93' x L: 3.94' x H: 0')
CIE Type: Direct

Input Watts (W): 58.1
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	111	111	111	111	109	109	109	109	104	104	104	99	99	99	95	95	95	93
1	103	99	95	92	100	97	94	91	93	90	88	89	87	85	86	84	83	81
2	94	87	82	77	92	86	80	76	82	78	74	79	76	72	77	73	71	69
3	86	77	70	65	84	76	69	64	73	68	63	71	66	62	68	64	61	59
4	79	69	61	55	77	68	60	55	65	59	54	63	58	53	61	57	53	51
5	73	62	54	48	71	61	53	48	59	52	47	57	51	47	55	50	46	44
6	68	56	48	42	66	55	47	42	53	46	41	52	46	41	50	45	41	39
7	63	51	43	37	61	50	42	37	48	42	37	47	41	37	46	41	36	35
8	59	46	39	33	57	46	38	33	44	38	33	43	37	33	42	37	33	31
9	55	43	35	30	53	42	35	30	41	34	30	40	34	30	39	34	30	28
10	51	39	32	27	50	39	32	27	38	32	27	37	31	27	36	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7530	7530	7530
5°	7570	7322	7041
10°	7565	6641	6145
15°	7536	6097	5756
20°	7480	5772	6126
25°	7408	5826	5884
30°	7307	6015	5808
35°	7150	5799	6129
40°	6981	5682	6381
45°	6730	5926	5726
50°	6482	6098	4668
55°	6104	5370	4112
60°	5613	4158	3740
65°	4996	3735	3275
70°	4141	3151	1989
75°	3083	2025	11
80°	1781	0	0
85°	372	0	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	229.6	4.2	3.9	0°	2557	2557	2557	2557	2557	
10°-20°	592.7	10.8	10.0	5°	2561	2544	2477	2433	2382	243
20°-30°	874.5	15.9	14.8	15°	2472	2278	2000	1933	1888	697
30°-40°	1047.2	19.0	17.7	25°	2280	1881	1793	1862	1811	1049
40°-50°	1103.5	20.0	18.7	35°	1989	1567	1613	1646	1705	1244
50°-60°	875.7	15.9	14.8	45°	1616	1380	1423	1512	1375	1246
60°-70°	578.2	10.5	9.8	55°	1189	1014	1046	806	801	1061
70°-80°	192.2	3.5	3.3	65°	717	733	536	509	470	708
80°-90°	12.4	0.2	0.2	75°	271	257	178	54	1	294
90°-100°	0.0	0.0	0.0	85°	11	1	0	0	0	31
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°	1696.8	30.8	28.8							
0°-40°	2743.9	49.8	46.5							
0°-60°	4723.0	85.8	80.1							
0°-90°	5505.9	100.0	93.3							
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°	5505.9	100.0	93.3							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2557	2557	2557	2557	2557
2.5°	2570	2564	2539	2528	2506
5°	2561	2544	2477	2433	2382
7.5°	2548	2506	2352	2266	2197
10°	2530	2448	2221	2116	2055
12.5°	2504	2369	2092	2006	1970
15°	2472	2278	2000	1933	1888
17.5°	2435	2173	1919	1848	1858
20°	2387	2071	1842	1861	1955
22.5°	2334	1972	1764	1932	1905
25°	2280	1881	1793	1862	1811
27.5°	2213	1800	1828	1779	1778
30°	2149	1721	1769	1736	1708
32.5°	2070	1648	1668	1671	1694
35°	1989	1567	1613	1646	1705
37.5°	1905	1482	1542	1652	1691
40°	1816	1436	1478	1634	1660
42.5°	1719	1417	1444	1603	1555
45°	1616	1380	1423	1512	1375
47.5°	1509	1292	1380	1333	1214
50°	1415	1193	1331	1166	1019
52.5°	1302	1100	1220	988	841
55°	1189	1014	1046	806	801
57.5°	1072	924	885	755	734
60°	953	860	706	692	635
62.5°	835	800	588	587	546
65°	717	733	536	509	470
67.5°	595	640	441	429	395
70°	481	507	366	348	231
72.5°	372	368	295	193	85
75°	271	257	178	54	1
77.5°	180	198	49	0	0
80°	105	133	0	0	0
82.5°	49	59	0	0	0
85°	11	1	0	0	0
87.5°	1	0	0	0	0
90°	0	0	0	0	0

(END OF REPORT)