

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: NEO-RAY

Report Number: BALLABS TEST NO. 12164.0

Luminaire Tested: **S2242T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 12164.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S2242T8
Description: 2/32W T8 LAMP 2x4'RECESSED INDIRECT GRID MNT LUMINAIRE
Light Source: -
F32T8/835
Ballast/Driver: UNIVERSAL BALLAST #B232IUNVHP-B WATTS=56 REFL=93%

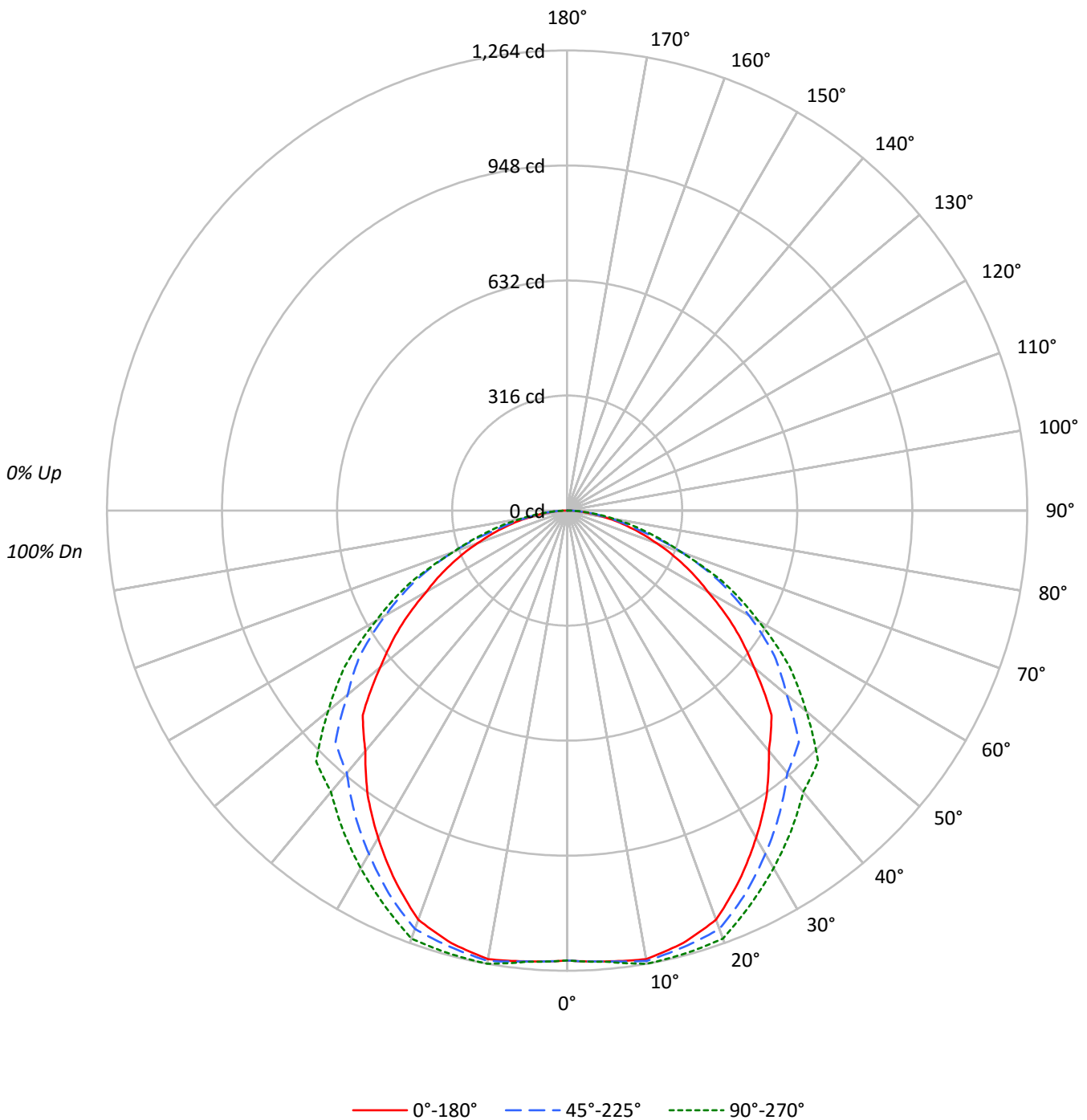
Summary

Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 3626.8 lumens
Efficiency: 61.5%
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.35 / 1.44
Luminous Opening: Rectangular (W 1.94' x L: 3.92' 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	73	73	73	73	71	71	71	71	68	68	68	65	65	65	63	63	63	61
1	67	64	62	59	65	63	60	58	60	58	56	58	56	55	55	54	53	52
2	61	56	52	48	59	55	51	48	53	49	47	51	48	46	49	47	45	43
3	56	49	44	40	54	48	44	40	46	42	39	45	41	38	43	40	38	36
4	51	44	38	34	49	43	38	34	41	37	33	40	36	33	38	35	32	31
5	47	39	33	29	45	38	33	29	37	32	29	36	32	29	35	31	28	27
6	43	35	30	26	42	34	29	25	33	29	25	32	28	25	31	28	25	23
7	40	32	26	23	39	31	26	22	30	26	22	29	25	22	29	25	22	21
8	37	29	24	20	36	28	24	20	28	23	20	27	23	20	26	22	20	18
9	35	27	21	18	34	26	21	18	25	21	18	25	21	18	24	20	18	17
10	33	24	20	16	32	24	19	16	24	19	16	23	19	16	22	19	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1753	1753	1753
5°	1769	1769	1771
10°	1801	1808	1820
15°	1806	1822	1848
20°	1805	1845	1888
25°	1752	1815	1866
30°	1700	1783	1857
35°	1653	1760	1857
40°	1596	1742	1868
45°	1592	1805	1955
50°	1478	1736	1890
55°	1387	1718	1842
60°	1268	1636	1721
65°	1191	1557	1617
70°	1082	1389	1376
75°	981	1096	1238
80°	841	931	1053
85°	700	781	830



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	119.1	3.3	2.0
10°-20°	351.4	9.7	6.0
20°-30°	533.7	14.7	9.0
30°-40°	635.2	17.5	10.8
40°-50°	675.0	18.6	11.4
50°-60°	597.6	16.5	10.1
60°-70°	434.0	12.0	7.4
70°-80°	223.3	6.2	3.8
80°-90°	57.4	1.6	1.0
90°-100°	0.0	0.0	0.0
100°-110°	0.0	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°	1004.2	27.7	17.0
0°-40°	1639.4	45.2	27.8
0°-60°	2912.1	80.3	49.4
0°-90°	3626.8	100.0	61.5
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°	3626.8	100.0	61.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1243	1243	1243	1244	1244	119
15°	1230	1231	1241	1254	1259	347
25°	1120	1130	1160	1183	1193	516
35°	955	973	1017	1055	1073	597
45°	794	824	900	955	975	602
55°	561	608	695	736	745	501
65°	355	410	464	481	482	351
75°	179	209	200	217	226	190
85°	43	43	48	51	51	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1236	1236	1236	1236	1236
5°	1243	1243	1243	1244	1244
10°	1251	1252	1256	1260	1264
15°	1230	1231	1241	1254	1259
20°	1196	1202	1223	1243	1251
25°	1120	1130	1160	1183	1193
30°	1038	1052	1089	1122	1134
35°	955	973	1017	1055	1073
40°	862	884	941	989	1009
45°	794	824	900	955	975
50°	670	708	787	839	857
55°	561	608	695	736	745
60°	447	498	577	602	607
65°	355	410	464	481	482
70°	261	309	335	324	332
75°	179	209	200	217	226
80°	103	111	114	124	129
85°	43	43	48	51	51
90°	0	0	0	0	0

(END OF REPORT)