

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. 12163.0

Luminaire Tested: **S2042T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 12163.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S2042T8
Description: 2/32W T8 LAMP 2x4"RECESSED INDIRECT GRID MNT LUMINAIRE
Light Source: -
F32T8/835
Ballast/Driver: UNIVERSAL BALLAST #B232PUNVHP-A WATTS=60 REFL=95%

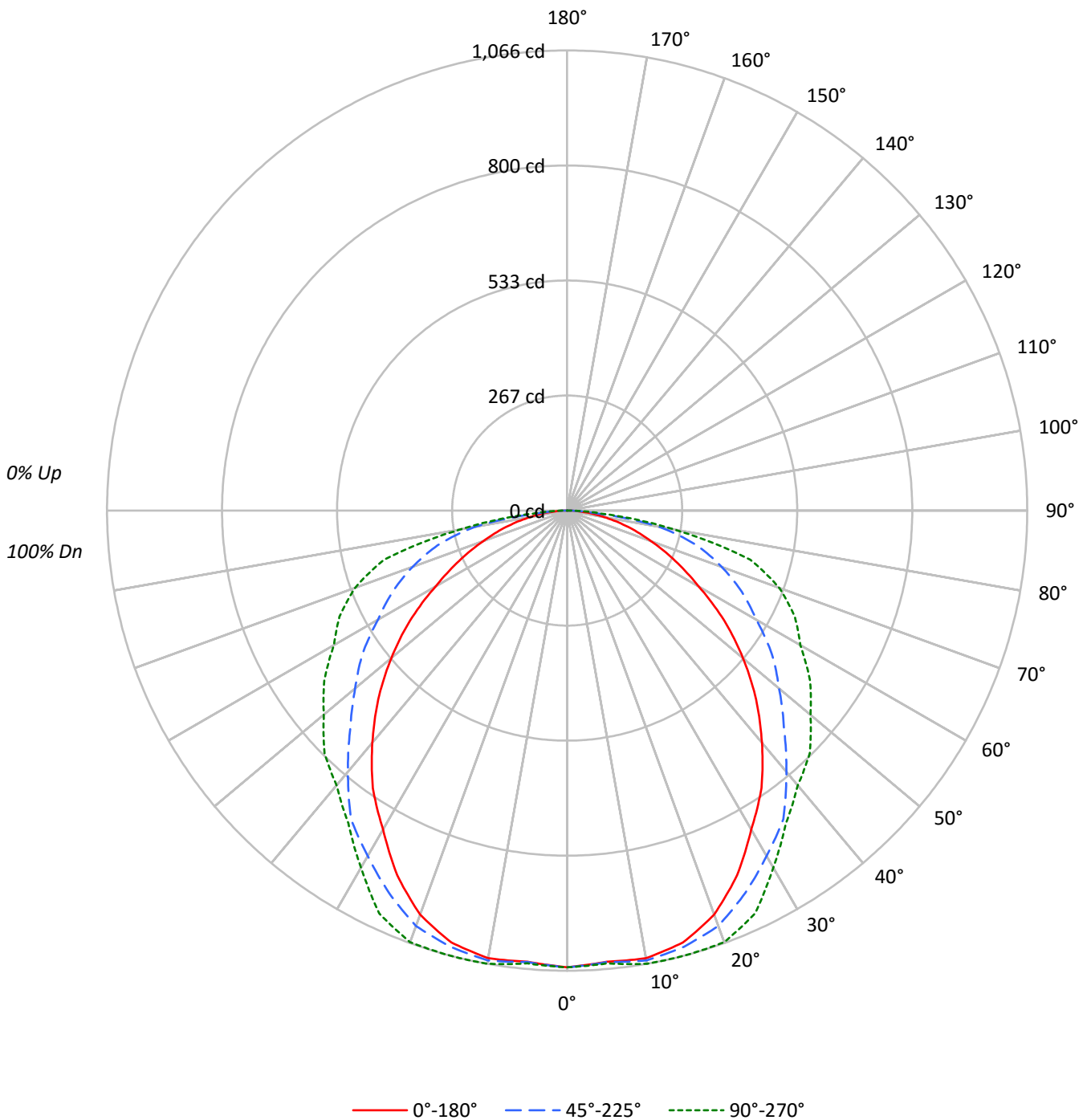
Summary

Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 3271.6 lumens
Efficiency: 55.5%
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.32 / 1.39
Luminous Opening: Rectangular (W 1.9' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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	66	66	66	66	64	64	64	64	62	62	62	59	59	59	57	57	57	55
1	60	57	54	52	58	56	53	51	53	51	50	51	50	48	49	48	47	45
2	54	49	45	42	53	48	44	41	46	43	40	44	42	39	43	40	39	37
3	49	43	38	34	48	42	38	34	40	37	34	39	36	33	37	35	32	31
4	45	38	33	29	44	37	32	29	36	32	28	34	31	28	33	30	28	26
5	41	34	29	25	40	33	28	25	32	28	24	31	27	24	30	27	24	23
6	38	30	25	22	37	30	25	22	29	25	21	28	24	21	27	24	21	20
7	35	28	23	19	34	27	22	19	26	22	19	25	22	19	25	21	19	17
8	33	25	20	17	32	25	20	17	24	20	17	23	19	17	23	19	17	16
9	31	23	18	15	30	23	18	15	22	18	15	21	18	15	21	17	15	14
10	29	21	17	14	28	21	17	14	20	16	14	20	16	14	19	16	14	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1533	1533	1533
5°	1526	1528	1532
10°	1550	1557	1569
15°	1555	1570	1600
20°	1536	1579	1641
25°	1490	1562	1647
30°	1428	1546	1598
35°	1389	1545	1564
40°	1328	1495	1572
45°	1269	1455	1630
50°	1200	1445	1660
55°	1122	1463	1736
60°	1020	1467	1809
65°	947	1533	1996
70°	877	1615	2216
75°	818	1742	2458
80°	726	1820	2095
85°	649	965	1314



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	100.7	3.1	1.7
10°-20°	296.0	9.0	5.0
20°-30°	449.9	13.8	7.6
30°-40°	530.2	16.2	9.0
40°-50°	552.5	16.9	9.4
50°-60°	515.6	15.8	8.7
60°-70°	433.1	13.2	7.3
70°-80°	308.4	9.4	5.2
80°-90°	85.2	2.6	1.4
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°	846.6	25.9	14.3
0°-40°	1376.8	42.1	23.3
0°-60°	2444.9	74.7	41.4
0°-90°	3271.6	100.0	55.5
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°	3271.6	100.0	55.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1049	1050	1050	1052	1053	100
15°	1036	1037	1046	1059	1066	291
25°	932	942	977	1017	1030	428
35°	785	807	873	878	884	489
45°	619	672	710	788	795	477
55°	444	516	579	657	687	396
65°	276	335	447	541	582	275
75°	146	200	311	403	439	155
85°	39	52	58	73	79	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058	1058	1058	1058	1058
5°	1049	1050	1050	1052	1053
10°	1053	1053	1058	1064	1066
15°	1036	1037	1046	1059	1066
20°	996	1002	1024	1052	1064
25°	932	942	977	1017	1030
30°	853	869	924	955	955
35°	785	807	873	878	884
40°	702	736	790	809	831
45°	619	672	710	788	795
50°	532	598	641	709	736
55°	444	516	579	657	687
60°	352	414	506	588	624
65°	276	335	447	541	582
70°	207	264	381	481	523
75°	146	200	311	403	439
80°	87	131	218	251	251
85°	39	52	58	73	79
90°	0	0	0	0	0

(END OF REPORT)