

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. 12074.0

Luminaire Tested: **S252 2/14T5**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 12074.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S252 2/14T5
Description: 2/14W T5 LAMP 2x2'RECESSED GRID LUMINAIRE
Light Source: -
FP14T5/835
Ballast/Driver: UNIVERSAL BALLAST #B228PUNV-C WATTS=33 REFL=92%

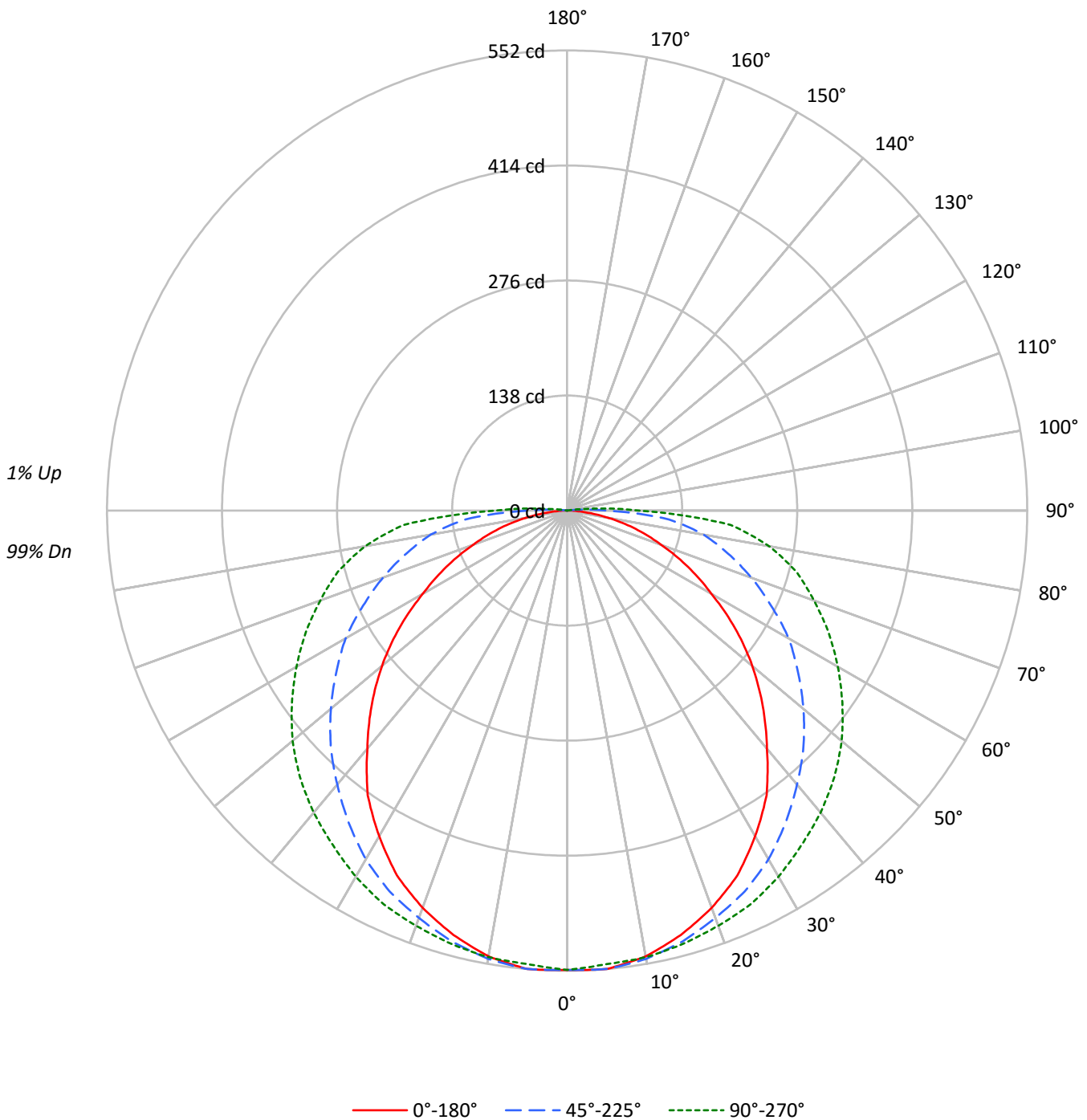
Summary

Lumens per Lamp: 1350 (2 lamps)
Luminaire Lumens: 1916.2 lumens
Efficiency: 71.0%
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.37 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 1.96' x H: 0.15')
CIE Type: Direct

Input Watts (W): 33
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	79	79	79		75	75	75		72	72	72	70
1	75	71	67	64	73	69	66	63	66	63	61		63	61	59		61	59	57	55
2	68	61	55	51	66	60	54	50	57	52	49		54	51	48		52	49	46	45
3	61	53	47	41	59	52	46	41	49	44	40		47	43	39		45	42	39	37
4	56	47	40	35	54	46	39	34	44	38	34		42	37	33		40	36	33	31
5	51	41	35	29	50	41	34	29	39	33	29		37	32	28		36	32	28	26
6	47	37	30	26	46	36	30	25	35	29	25		34	29	25		33	28	25	23
7	44	34	27	22	42	33	27	22	32	26	22		31	26	22		30	25	22	20
8	41	31	24	20	39	30	24	20	29	24	20		28	23	19		27	23	19	18
9	38	28	22	18	37	28	22	18	27	21	18		26	21	18		25	21	17	16
10	36	26	20	16	35	25	20	16	25	20	16		24	19	16		23	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1616	1616	1616
5°	1614	1609	1596
10°	1596	1595	1598
15°	1568	1578	1600
20°	1540	1561	1608
25°	1510	1552	1626
30°	1464	1539	1643
35°	1418	1521	1663
40°	1344	1506	1699
45°	1281	1501	1743
50°	1215	1496	1795
55°	1136	1497	1854
60°	1039	1517	1938
65°	957	1521	2057
70°	854	1554	2224
75°	753	1616	2502
80°	605	1739	2881
85°	345	1854	3506



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	52.3	2.7	1.9
10°-20°	150.8	7.9	5.6
20°-30°	231.6	12.1	8.6
30°-40°	284.9	14.9	10.6
40°-50°	306.4	16.0	11.3
50°-60°	296.0	15.4	11.0
60°-70°	258.2	13.5	9.6
70°-80°	202.2	10.6	7.5
80°-90°	117.9	6.2	4.4
90°-100°	16.0	0.8	0.6
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°	434.7	22.7	16.1
0°-40°	719.6	37.6	26.7
0°-60°	1322.0	69.0	49.0
0°-90°	1900.2	99.2	70.4
90°-120°	16.0	0.8	0.6
90°-150°	16.0	0.8	0.6
90°-180°	16.0	0.8	0.6
0°-180°	1916.2	100.0	71.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	551	551	551	551	551	
5°	552	549	552	551	546	52
15°	527	527	535	541	538	149
25°	483	488	504	517	521	222
35°	417	427	457	484	490	260
45°	332	356	401	438	453	256
55°	246	275	338	385	403	220
65°	160	192	270	326	346	158
75°	85	121	200	261	285	90
85°	19	56	123	178	197	23
90°	0	11	48	74	86	3
95°	0	0	6	13	20	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	551	551	551	551	551
5°	552	549	552	551	546
10°	543	541	546	547	544
15°	527	527	535	541	538
20°	507	509	520	530	530
25°	483	488	504	517	521
30°	451	458	483	502	507
35°	417	427	457	484	490
40°	373	391	429	462	473
45°	332	356	401	438	453
50°	290	317	370	413	430
55°	246	275	338	385	403
60°	200	232	307	356	375
65°	160	192	270	326	346
70°	120	156	235	294	315
75°	85	121	200	261	285
80°	51	85	166	225	246
85°	19	56	123	178	197
90°	0	11	48	74	86
95°	0	0	6	13	20
100°	0	0	0	0	0
105°	0	0	0	0	0
110°	0	0	0	0	0
115°	0	0	0	0	0
120°	0	0	0	0	0
125°	0	0	0	0	0
130°	0	0	0	0	0
135°	0	0	0	0	0
140°	0	0	0	0	0
145°	0	0	0	0	0
150°	0	0	0	0	0
155°	0	0	0	0	0
160°	0	0	0	0	0
165°	0	0	0	0	0
170°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)