

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. 12075.0

Luminaire Tested: **S252 2/24T5HO**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 12075.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S252 2/24T5HO
Description: 2/24W T5HO LAMP 2x2'RECESSED GRID LUMINAIRE
Light Source: -
FP24T5HO/835
Ballast/Driver: SYLVANIA BALLAST #QT 2x39-24/120PHO WATTS=57 REFL=92%

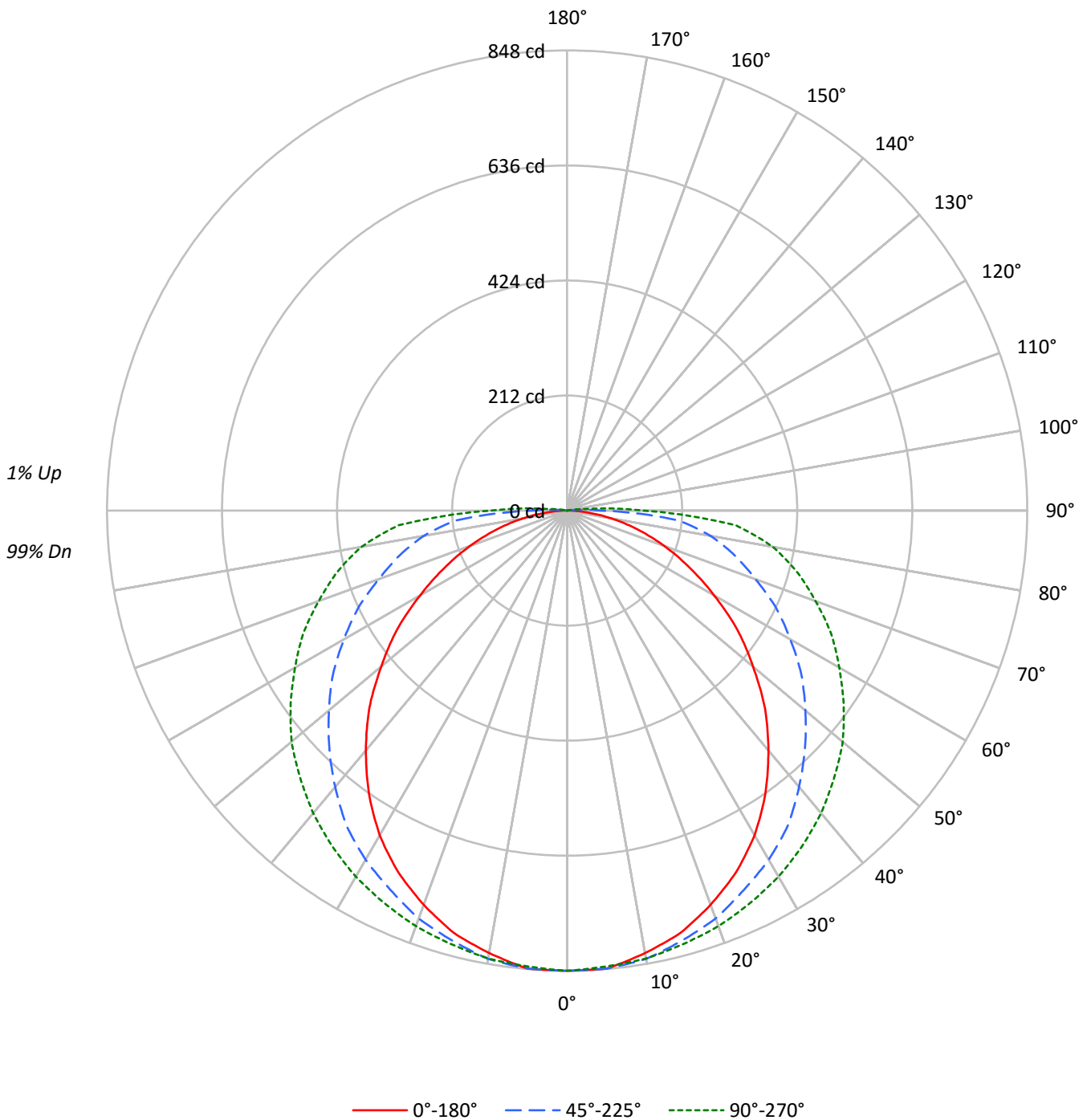
Summary

Lumens per Lamp: 2000 (2 lamps)
Luminaire Lumens: 2995.7 lumens
Efficiency: 74.9%
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.37 / 1.45
Luminous Opening: Rectangular w/ Sides (W: 1.88' x L: 1.96' x H: 0.15')
CIE Type: Direct

Input Watts (W): 57
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	89	89	89	89	87	87	87	87	83	83	83		79	79	79		76	76	76	74
1	79	75	71	67	77	73	69	66	70	67	64		67	64	62		64	62	60	58
2	71	64	58	53	69	63	57	52	60	55	51		57	53	50		55	51	49	47
3	65	56	49	43	62	54	48	43	52	46	42		50	45	41		48	44	40	38
4	59	49	42	36	57	48	41	36	46	40	35		44	39	35		42	38	34	32
5	54	43	36	31	52	43	36	31	41	35	30		39	34	30		38	33	29	28
6	50	39	32	27	48	38	31	27	37	31	26		35	30	26		34	29	26	24
7	46	35	28	23	45	35	28	23	33	27	23		32	27	23		31	26	23	21
8	43	32	25	21	41	32	25	21	30	25	20		29	24	20		28	24	20	19
9	40	29	23	19	39	29	23	19	28	22	18		27	22	18		26	22	18	17
10	37	27	21	17	36	27	21	17	26	20	17		25	20	17		24	20	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2486	2486	2486
5°	2477	2470	2464
10°	2433	2451	2461
15°	2399	2419	2459
20°	2348	2402	2473
25°	2301	2375	2491
30°	2243	2368	2524
35°	2167	2360	2563
40°	2078	2334	2615
45°	1991	2321	2677
50°	1873	2316	2767
55°	1769	2335	2861
60°	1625	2347	2992
65°	1489	2395	3192
70°	1352	2441	3439
75°	1188	2585	3853
80°	973	2808	4509
85°	617	3090	5553



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	80.4	2.7	2.0
10°-20°	231.4	7.7	5.8
20°-30°	355.5	11.9	8.9
30°-40°	440.1	14.7	11.0
40°-50°	475.0	15.9	11.9
50°-60°	462.7	15.4	11.6
60°-70°	407.4	13.6	10.2
70°-80°	322.7	10.8	8.1
80°-90°	193.0	6.4	4.8
90°-100°	26.9	0.9	0.7
100°-110°	0.5	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°	667.4	22.3	16.7
0°-40°	1107.5	37.0	27.7
0°-60°	2045.2	68.3	51.1
0°-90°	2968.4	99.1	74.2
90°-120°	27.3	0.9	0.7
90°-150°	27.3	0.9	0.7
90°-180°	27.0	0.9	0.7
0°-180°	2995.7	100.0	74.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	847	847	847	846	843	80
15°	806	813	820	827	827	227
25°	736	750	771	792	798	339
35°	637	668	709	742	755	398
45°	516	558	620	677	696	397
55°	383	443	527	599	622	341
65°	249	321	425	508	537	248
75°	134	206	320	411	439	142
85°	34	106	205	290	312	39
90°	1	24	63	116	141	5
95°	0	3	10	27	34	0
105°	0	0	1	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°	848	848	848	848	848
5°	847	847	847	846	843
10°	828	833	839	839	838
15°	806	813	820	827	827
20°	773	785	800	811	815
25°	736	750	771	792	798
30°	691	713	743	770	779
35°	637	668	709	742	755
40°	577	611	665	711	728
45°	516	558	620	677	696
50°	447	500	573	640	663
55°	383	443	527	599	622
60°	313	380	475	553	579
65°	249	321	425	508	537
70°	190	261	369	459	487
75°	134	206	320	411	439
80°	82	154	268	356	385
85°	34	106	205	290	312
90°	1	24	63	116	141
95°	0	3	10	27	34
100°	0	1	2	1	2
105°	0	0	1	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)