

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. 12079.0

Luminaire Tested: **S254 2/54 T5HO**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 12079.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S254 2/54 T5HO
Description: 2/54W T5HO LAMP 2x4'RECESSED GRID LUMINAIRE
Light Source: -
FP54T5HO/835
Ballast/Driver: UNIVERSAL BALLAST #B254PUNV-D WATTS=119 REFL=96%

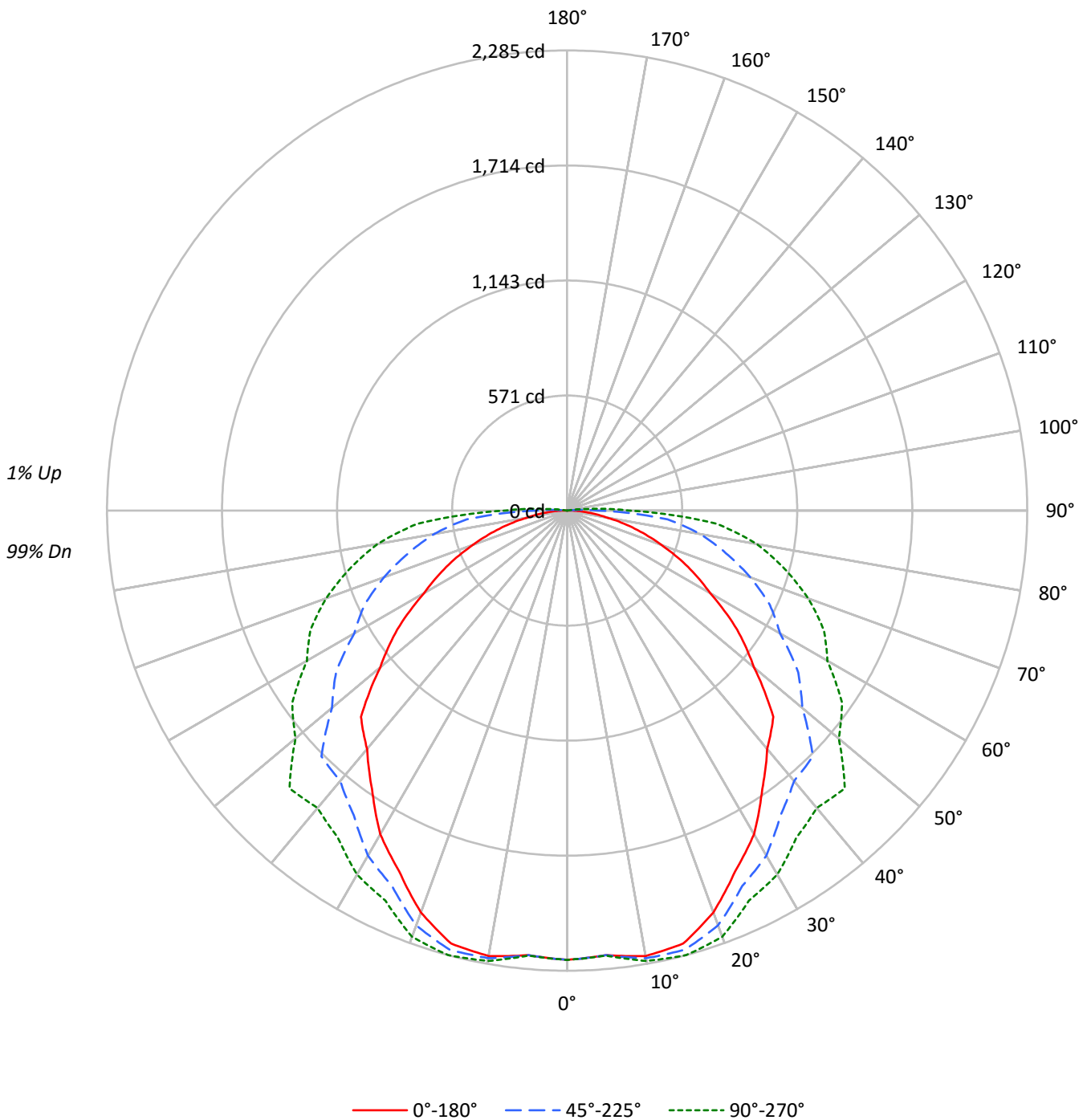
Summary

Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 7870.6 lumens
Efficiency: 78.7%
Efficacy: 66.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.38 / 1.48
Luminous Opening: Rectangular w/ Sides (W: 1.96' x L: 3.88' x H: 0.15')
CIE Type: Direct

Input Watts (W): 119
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	94	94	94	94	91	91	91	91	87	87	87	83	83	83	80	80	80	78
1	84	79	75	71	81	77	73	70	74	70	68	70	68	65	67	65	63	62
2	75	68	62	56	73	66	61	56	63	58	54	60	56	53	58	55	52	50
3	68	59	52	46	66	58	51	46	55	49	45	53	48	44	51	46	43	41
4	62	52	44	39	60	51	44	38	49	42	38	47	41	37	45	40	36	35
5	57	46	38	33	55	45	38	33	43	37	32	42	36	32	40	35	31	30
6	53	41	34	28	51	41	33	28	39	33	28	38	32	28	36	31	27	26
7	49	37	30	25	47	37	30	25	35	29	25	34	29	24	33	28	24	23
8	45	34	27	22	44	33	27	22	32	26	22	31	26	22	30	25	22	20
9	42	31	24	20	41	31	24	20	30	24	20	29	23	20	28	23	19	18
10	40	29	22	18	38	28	22	18	27	22	18	27	21	18	26	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3161	3161	3161
5°	3141	3130	3134
10°	3210	3202	3225
15°	3233	3242	3286
20°	3158	3212	3306
25°	3034	3101	3229
30°	2972	3094	3273
35°	2846	3027	3261
40°	2772	3040	3356
45°	2796	3204	3636
50°	2557	3069	3565
55°	2415	3109	3722
60°	2184	3042	3744
65°	2054	3183	4067
70°	1866	3289	4377
75°	1670	3447	4788
80°	1365	3776	5482
85°	1069	4263	6530



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	213.2	2.7	2.1
10°-20°	634.1	8.1	6.3
20°-30°	955.3	12.1	9.6
30°-40°	1159.8	14.7	11.6
40°-50°	1290.0	16.4	12.9
50°-60°	1218.6	15.5	12.2
60°-70°	1055.0	13.4	10.6
70°-80°	819.9	10.4	8.2
80°-90°	466.1	5.9	4.7
90°-100°	58.4	0.7	0.6
100°-110°	0.2	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°	1802.6	22.9	18.0
0°-40°	2962.4	37.6	29.6
0°-60°	5471.0	69.5	54.7
0°-90°	7812.0	99.3	78.1
90°-120°	58.6	0.7	0.6
90°-150°	58.6	0.7	0.6
90°-180°	59.0	0.7	0.6
0°-180°	7870.6	100.0	78.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2231	2231	2231	2231	2231	
5°	2216	2215	2216	2218	2218	213
15°	2226	2235	2257	2276	2285	624
25°	1975	1998	2057	2113	2137	915
35°	1689	1735	1847	1944	1984	1062
45°	1448	1535	1726	1888	1950	1092
55°	1030	1152	1401	1597	1667	915
65°	662	813	1111	1327	1407	654
75°	348	515	816	1039	1118	368
85°	94	259	500	678	744	101
90°	11	51	153	260	307	16
95°	0	0	16	58	80	2
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°	2231	2231	2231	2231	2231
5°	2216	2215	2216	2218	2218
10°	2246	2247	2257	2265	2271
15°	2226	2235	2257	2276	2285
20°	2123	2147	2192	2234	2252
25°	1975	1998	2057	2113	2137
30°	1856	1889	1978	2056	2087
35°	1689	1735	1847	1944	1984
40°	1546	1610	1753	1878	1928
45°	1448	1535	1726	1888	1950
50°	1212	1311	1524	1697	1761
55°	1030	1152	1401	1597	1667
60°	821	958	1221	1421	1492
65°	662	813	1111	1327	1407
70°	497	656	967	1192	1273
75°	348	515	816	1039	1118
80°	203	376	671	881	956
85°	94	259	500	678	744
90°	11	51	153	260	307
95°	0	0	16	58	80
100°	0	0	1	1	2
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)