

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. 11921.0

Luminaire Tested: **194/1T5HO S17A**

Issue Date: 3/3/2020

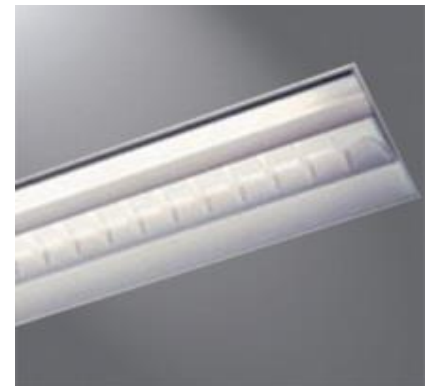
Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 11921.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 194/1T5HO S17A
Description: 1/54W T5HO 1x4'RECESSED GRID MNT LUMINAIRE w/WHITE REFL
Light Source: -
FP54WT5HO/835
Ballast/Driver: -

Summary

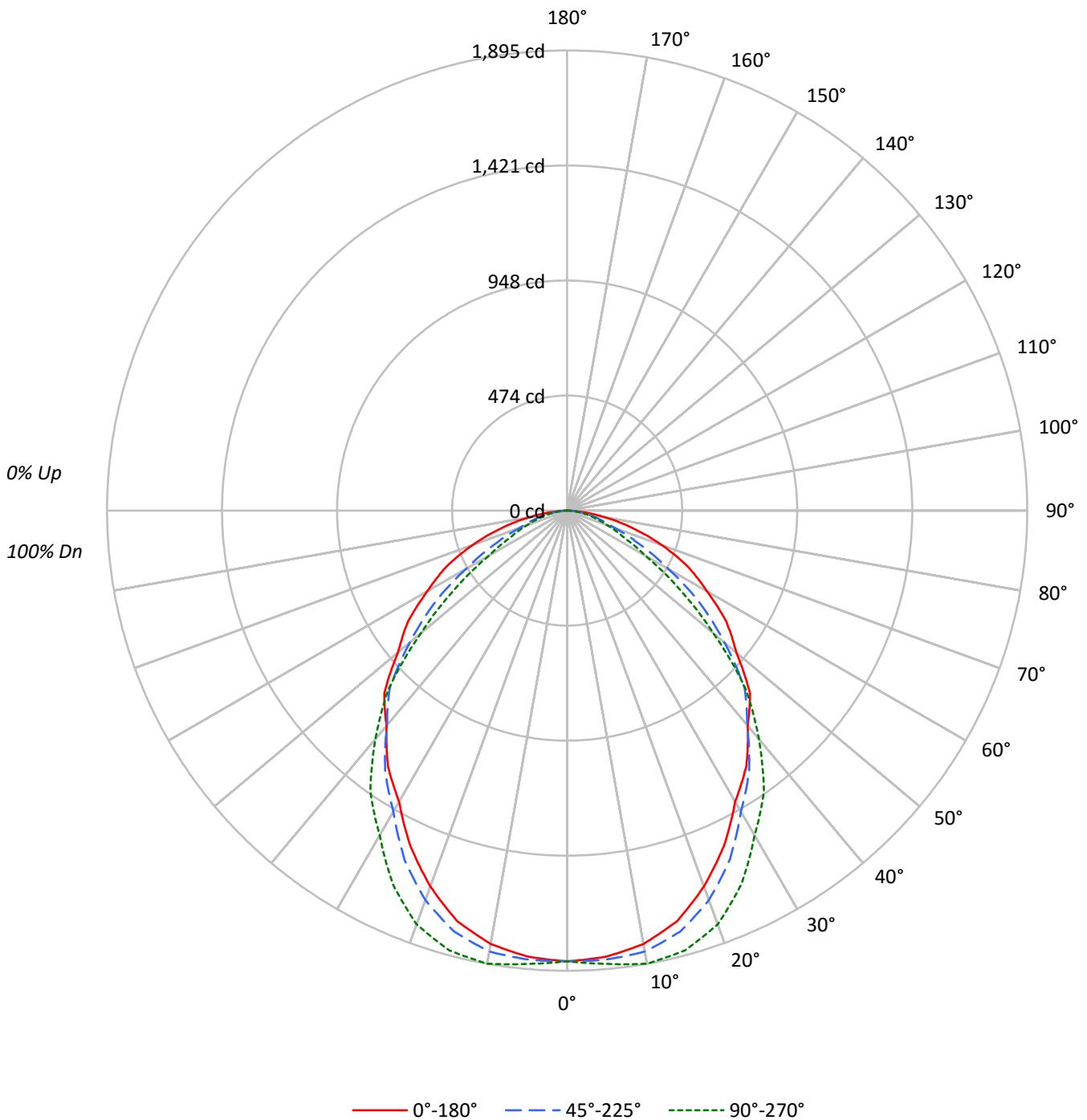
Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 4226.4 lumens
Efficiency: 84.5%
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.23 / 1.26
Luminous Opening: Rectangular (W 0.9' x L: 3.92' x H: 0')
CIE Type: Direct

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	101	101	101	101	98	98	98	98	94	94	94		90	90	90		86	86	86	85
1	93	89	86	83	91	88	85	82	84	82	79		81	79	77		78	76	75	73
2	85	79	74	70	83	78	73	69	75	71	67		72	69	66		69	67	64	62
3	79	70	64	59	77	69	63	59	67	62	57		64	60	57		62	59	56	54
4	72	63	56	51	70	62	55	51	60	54	50		58	53	49		56	52	49	47
5	67	57	50	44	65	56	49	44	54	48	44		52	47	43		51	46	43	41
6	62	51	44	39	60	51	44	39	49	43	39		48	42	38		46	42	38	36
7	58	47	40	35	56	46	40	35	45	39	35		44	38	34		43	38	34	32
8	54	43	36	31	53	42	36	31	41	35	31		40	35	31		39	34	31	29
9	50	40	33	28	49	39	33	28	38	32	28		37	32	28		36	32	28	26
10	47	37	30	26	46	36	30	26	35	30	26		35	29	26		34	29	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5692	5692	5692
5°	5677	5714	5769
10°	5643	5743	5902
15°	5557	5699	5953
20°	5375	5571	5917
25°	5164	5364	5746
30°	4901	5068	5468
35°	4815	4894	5290
40°	4632	4620	4916
45°	4619	4480	4515
50°	4337	4037	3755
55°	4283	3588	3021
60°	4079	2957	2276
65°	3991	2402	1836
70°	3712	1838	1578
75°	3306	1612	1375
80°	2773	1413	1201
85°	1900	1161	985



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	176.9	4.2	3.5
10°-20°	506.6	12.0	10.1
20°-30°	732.1	17.3	14.6
30°-40°	825.0	19.5	16.5
40°-50°	791.3	18.7	15.8
50°-60°	603.2	14.3	12.1
60°-70°	371.8	8.8	7.4
70°-80°	176.0	4.2	3.5
80°-90°	43.6	1.0	0.9
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°	1415.6	33.5	28.3
0°-40°	2240.6	53.0	44.8
0°-60°	3635.1	86.0	72.7
0°-90°	4226.4	100.0	84.5
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°	4226.4	100.0	84.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1856	1856	1856	1856	1856	
5°	1844	1845	1856	1868	1874	175
15°	1750	1763	1795	1841	1875	491
25°	1526	1544	1585	1643	1698	701
35°	1286	1299	1307	1351	1413	801
45°	1065	1067	1033	1015	1041	810
55°	801	775	671	574	565	711
65°	550	498	331	259	253	539
75°	279	191	136	122	116	298
85°	54	39	33	28	28	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1856	1856	1856	1856	1856
5°	1844	1845	1856	1868	1874
10°	1812	1819	1844	1875	1895
15°	1750	1763	1795	1841	1875
20°	1647	1665	1707	1763	1813
25°	1526	1544	1585	1643	1698
30°	1384	1399	1431	1482	1544
35°	1286	1299	1307	1351	1413
40°	1157	1166	1154	1178	1228
45°	1065	1067	1033	1015	1041
50°	909	902	846	782	787
55°	801	775	671	574	565
60°	665	631	482	385	371
65°	550	498	331	259	253
70°	414	337	205	181	176
75°	279	191	136	122	116
80°	157	95	80	71	68
85°	54	39	33	28	28
90°	0	0	0	0	0

(END OF REPORT)