

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. 11922.0

Luminaire Tested: **194/2T5-S17**

Issue Date: 3/3/2020

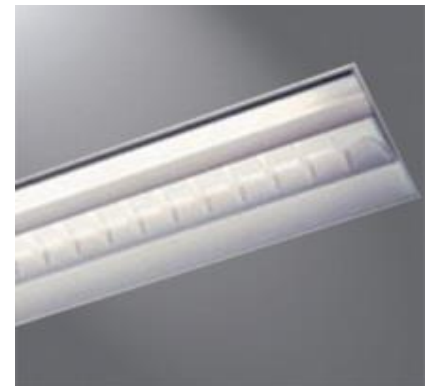
Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 11922.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 194/2T5-S17
Description: 2/28W T5 LAMP 1x4'RECESSED GRID MNT LUMINAIRE w/WHITE REFL
Light Source: -
Ballast/Driver: UNIVERSAL BALLAST #B228PUNV-C WATTS=67 REFL=94%

Summary

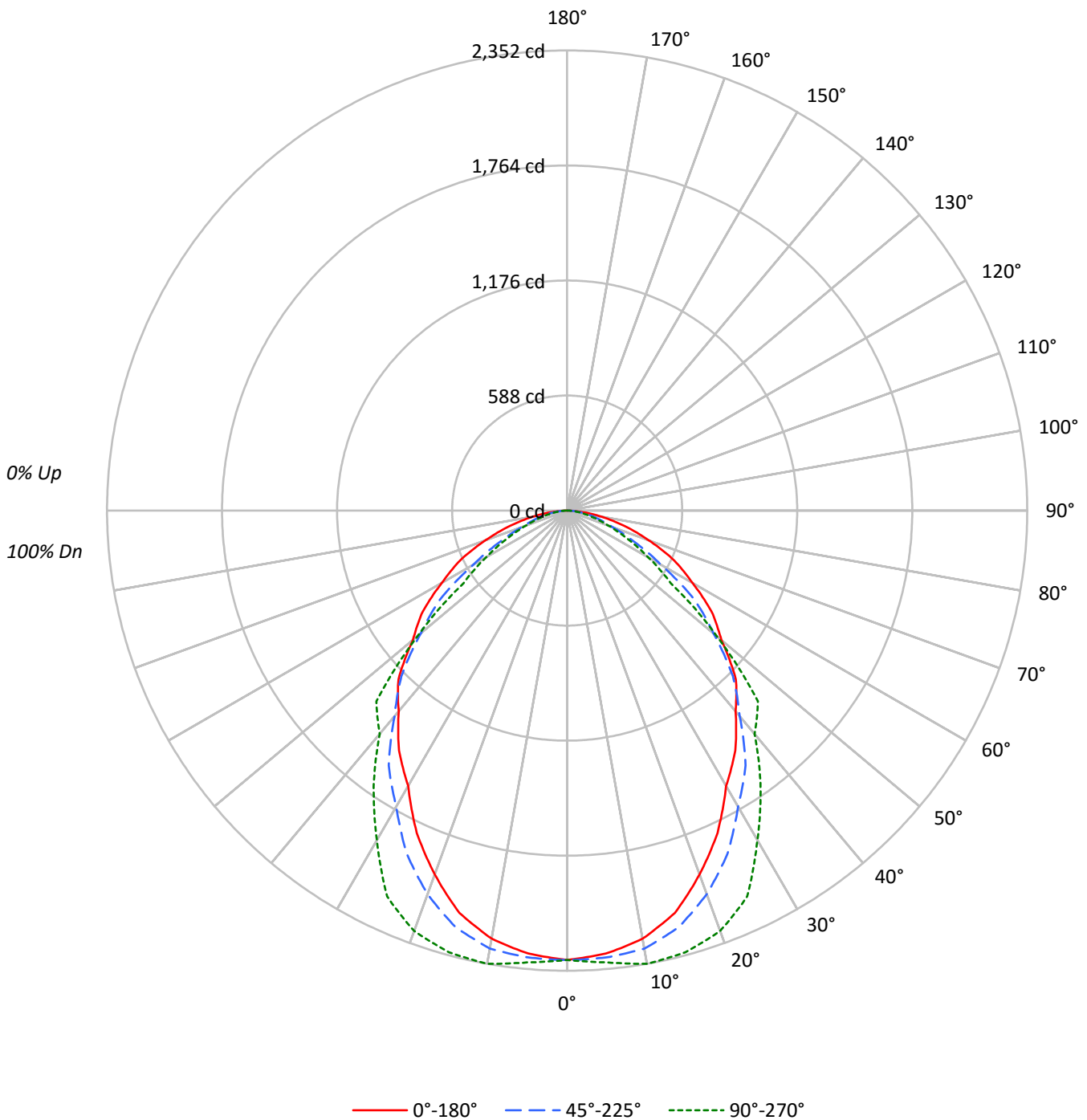
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 5065.0 lumens
Efficiency: 87.3%
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.24 / 1.23
Luminous Opening: Rectangular (W 0.9' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 67
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	104	104	104	104	102	102	102	102	97	97	97	93	93	93	89	89	89	87
1	96	93	89	86	94	91	88	85	87	84	82	84	82	80	80	79	77	76
2	88	82	77	72	86	80	75	71	77	73	70	75	71	68	72	69	67	65
3	81	73	67	61	79	72	66	61	69	64	60	67	62	59	65	61	58	56
4	75	65	58	53	73	64	58	53	62	56	52	60	55	51	58	54	51	49
5	69	59	52	46	68	58	51	46	56	50	46	55	49	45	53	48	45	43
6	64	53	46	41	63	53	46	41	51	45	40	50	44	40	48	44	40	38
7	60	49	42	37	58	48	41	36	47	41	36	46	40	36	44	39	36	34
8	56	45	38	33	55	44	37	33	43	37	33	42	36	32	41	36	32	31
9	52	41	34	30	51	41	34	30	40	34	30	39	33	29	38	33	29	28
10	49	38	32	27	48	38	31	27	37	31	27	36	31	27	35	30	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7045	7045	7045
5°	6998	7059	7136
10°	6920	7079	7325
15°	6760	6998	7420
20°	6459	6808	7464
25°	6152	6558	7367
30°	5755	6187	6888
35°	5609	5953	6455
40°	5365	5493	5969
45°	5292	5196	5981
50°	4910	4662	4767
55°	4823	4246	3460
60°	4533	3386	2944
65°	4391	2736	2446
70°	3972	2206	2000
75°	3567	1943	1671
80°	3091	1696	1360
85°	2323	1478	1161



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	218.5	4.3	3.8
10°-20°	623.3	12.3	10.7
20°-30°	898.6	17.7	15.5
30°-40°	991.4	19.6	17.1
40°-50°	943.0	18.6	16.3
50°-60°	703.0	13.9	12.1
60°-70°	430.5	8.5	7.4
70°-80°	204.0	4.0	3.5
80°-90°	52.7	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°	1740.4	34.4	30.0
0°-40°	2731.8	53.9	47.1
0°-60°	4377.8	86.4	75.5
0°-90°	5065.0	100.0	87.3
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°	5065.0	100.0	87.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2297	2297	2297	2297	2297	
5°	2273	2277	2293	2310	2318	215
15°	2129	2150	2204	2284	2337	597
25°	1818	1852	1938	2071	2177	834
35°	1498	1524	1590	1647	1724	933
45°	1220	1239	1198	1256	1379	928
55°	902	882	794	673	647	799
65°	605	552	377	326	337	592
75°	301	216	164	147	141	322
85°	66	50	42	36	33	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2297	2297	2297	2297	2297
5°	2273	2277	2293	2310	2318
10°	2222	2235	2273	2325	2352
15°	2129	2150	2204	2284	2337
20°	1979	2010	2086	2201	2287
25°	1818	1852	1938	2071	2177
30°	1625	1654	1747	1860	1945
35°	1498	1524	1590	1647	1724
40°	1340	1362	1372	1404	1491
45°	1220	1239	1198	1256	1379
50°	1029	1042	977	978	999
55°	902	882	794	673	647
60°	739	705	552	465	480
65°	605	552	377	326	337
70°	443	376	246	224	223
75°	301	216	164	147	141
80°	175	113	96	84	77
85°	66	50	42	36	33
90°	0	0	0	0	0

(END OF REPORT)