

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. 13693.0

Luminaire Tested: **S7/448R/6T5/ETG/UEB-SI-S46**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 13693.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S7/448R/6T5/ETG/UEB-SI-S46
Description: 6/28W T5 LAMP 4x4'DIRECT RECESSED LUMINAIRE w/WHITE BODY
2"REGRESSED TRIM w/.125"OPAL WHITE ACRYLIC FLAT LENS
3 UNIVERSAL BALLAST #B228PUNV-C WATTS=186 REFL=85%
Light Source: -
FP28T5/835
Ballast/Driver: -

Summary

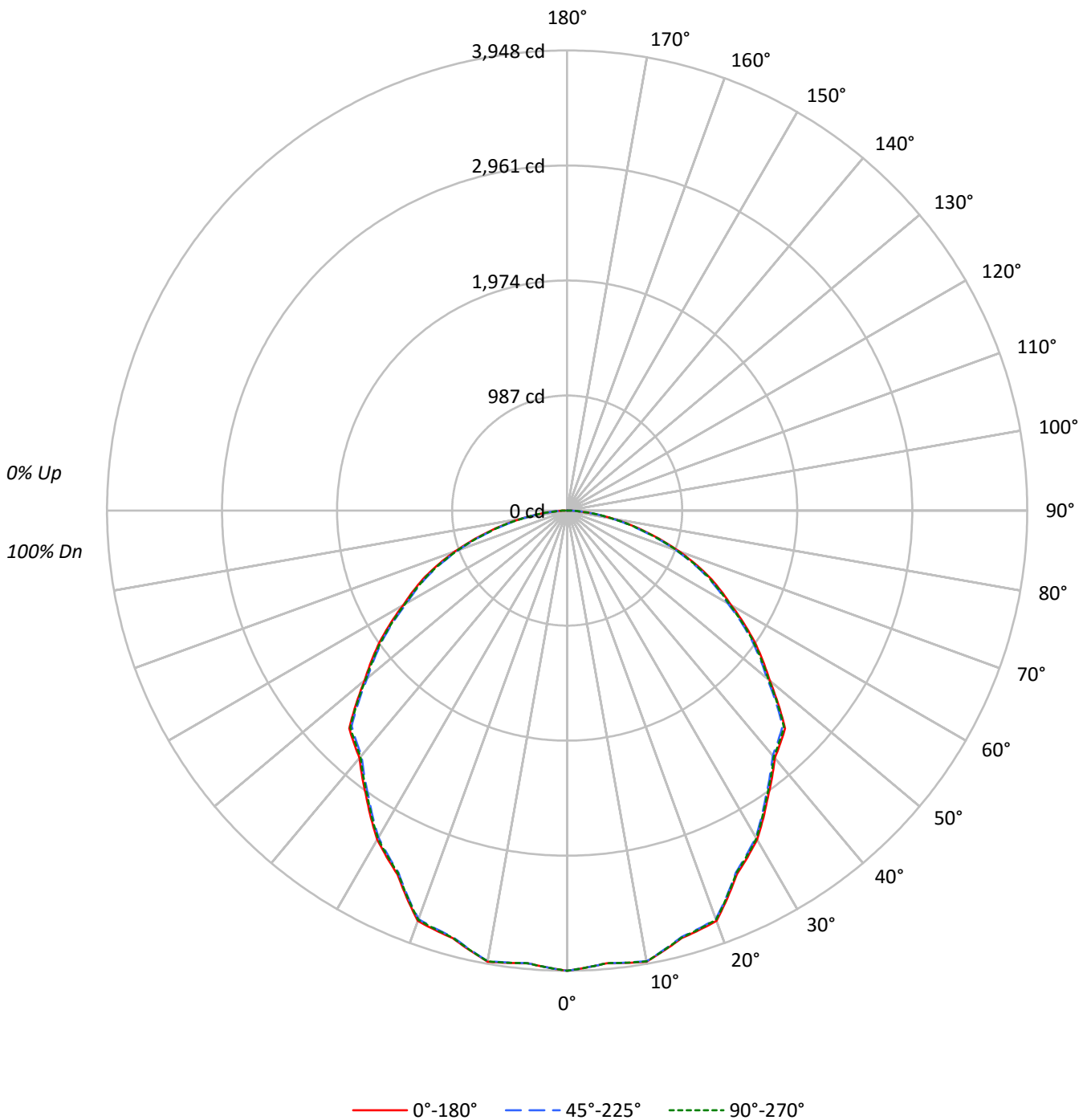
Lumens per Lamp: 2900 (6 lamps)
Luminaire Lumens: 10834.3 lumens
Efficiency: 62.3%
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.36
Luminous Opening: Rectangular (W 3.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 186
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	74	74	74	74	72	72	72	72	69	69	69	66	66	66	64	64	64	62
1	68	65	62	60	66	63	61	59	61	59	57	58	57	55	56	55	54	52
2	62	57	52	49	60	55	52	48	53	50	47	51	48	46	49	47	45	44
3	56	50	45	41	55	49	44	40	47	43	40	45	42	39	44	41	38	37
4	52	44	39	34	50	43	38	34	42	37	34	40	36	33	39	36	33	31
5	47	39	34	30	46	39	33	30	37	33	29	36	32	29	35	31	29	27
6	44	35	30	26	43	35	30	26	34	29	26	33	29	25	32	28	25	24
7	41	32	27	23	40	32	27	23	31	26	23	30	26	23	29	25	22	21
8	38	29	24	20	37	29	24	20	28	24	20	27	23	20	27	23	20	19
9	35	27	22	18	34	27	22	18	26	21	18	25	21	18	25	21	18	17
10	33	25	20	17	32	25	20	17	24	20	17	23	19	17	23	19	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2766	2766	2766
5°	2742	2742	2742
10°	2796	2793	2794
15°	2755	2748	2751
20°	2794	2782	2786
25°	2663	2649	2654
30°	2637	2619	2628
35°	2568	2546	2556
40°	2534	2510	2523
45°	2620	2591	2607
50°	2472	2441	2459
55°	2398	2359	2375
60°	2277	2232	2252
65°	2230	2177	2200
70°	2092	2036	2059
75°	1871	1806	1827
80°	1618	1553	1574
85°	1134	1117	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	373.7	3.4	2.1
10°-20°	1078.1	10.0	6.2
20°-30°	1596.5	14.7	9.2
30°-40°	1874.0	17.3	10.8
40°-50°	1979.4	18.3	11.4
50°-60°	1728.7	16.0	9.9
60°-70°	1299.7	12.0	7.5
70°-80°	721.9	6.7	4.1
80°-90°	182.3	1.7	1.0
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°	3048.3	28.1	17.5
0°-40°	4922.3	45.4	28.3
0°-60°	8630.4	79.7	49.6
0°-90°	10834.3	100.0	62.3
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°	10834.3	100.0	62.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3948	3948	3948	3948	3948	
5°	3898	3898	3898	3898	3898	374
15°	3798	3793	3788	3790	3793	1080
25°	3444	3433	3426	3428	3433	1602
35°	3002	2986	2977	2977	2988	1885
45°	2644	2628	2615	2615	2631	1995
55°	1963	1942	1931	1931	1944	1749
65°	1345	1327	1313	1317	1327	1321
75°	691	675	667	667	675	740
85°	141	139	139	141	144	186
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3948	3948	3948	3948	3948
5°	3898	3898	3898	3898	3898
10°	3930	3927	3925	3925	3927
15°	3798	3793	3788	3790	3793
20°	3747	3736	3731	3731	3736
25°	3444	3433	3426	3428	3433
30°	3259	3246	3237	3243	3248
35°	3002	2986	2977	2977	2988
40°	2771	2751	2744	2744	2758
45°	2644	2628	2615	2615	2631
50°	2268	2247	2239	2239	2256
55°	1963	1942	1931	1931	1944
60°	1625	1603	1593	1595	1607
65°	1345	1327	1313	1317	1327
70°	1021	1005	994	994	1005
75°	691	675	667	667	675
80°	401	388	385	388	390
85°	141	139	139	141	144
90°	0	0	0	0	0

(END OF REPORT)