

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. 11968.0

Luminaire Tested: **S294 1/54T5HO S17**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 11968.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S294 1/54T5HO S17
Description: 1/54W T5HO LAMP 2x4' RECESSED GRID MNT LUMINAIRE
Light Source: -
FP54WT5HO/835
Ballast/Driver: UNIVERSAL BALLAST #B254PUNV-D WATTS=61 REFL=92%

Summary

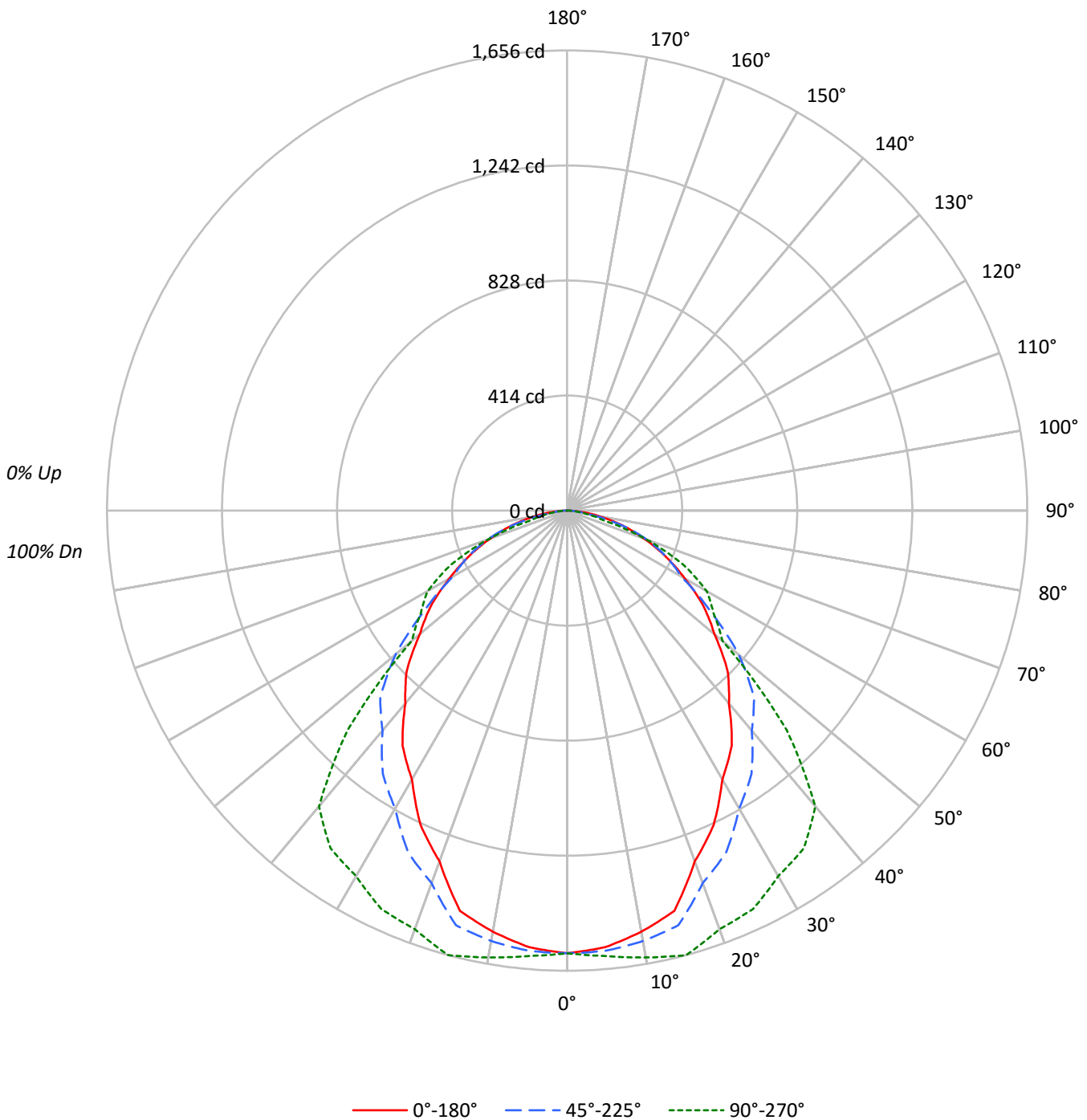
Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 3898.3 lumens
Efficiency: 78.0%
Efficacy: 63.9 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.43 / 1.31
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 61
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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	93	93	93	93	91	91	91	91	87	87	87	83	83	83	80	80	80	80	80	80	80	80	80	80	80	80	80	78																		
1	85	82	79	76	83	80	77	75	77	75	73	74	72	70	71	70	68	67	67	67	67	67	67	67	67	67	67	67																		
2	78	72	67	63	76	71	66	62	68	64	61	65	62	59	63	60	58	57	57	57	57	57	57	57	57	57	57	57																		
3	72	64	58	53	70	63	57	53	60	56	52	58	54	51	56	53	50	48	48	48	48	48	48	48	48	48	48	48																		
4	66	57	50	45	64	56	50	45	54	49	45	52	48	44	51	47	43	42	42	42	42	42	42	42	42	42	42	42																		
5	61	51	44	39	59	50	44	39	49	43	39	47	42	38	46	41	38	36	36	36	36	36	36	36	36	36	36	36																		
6	56	46	40	35	55	46	39	35	44	38	34	43	38	34	42	37	34	32	32	32	32	32	32	32	32	32	32	32																		
7	52	42	35	31	51	41	35	31	40	35	31	39	34	30	38	34	30	29	29	29	29	29	29	29	29	29	29	29																		
8	49	39	32	28	48	38	32	28	37	31	27	36	31	27	35	31	27	26	26	26	26	26	26	26	26	26	26	26																		
9	46	35	29	25	45	35	29	25	34	29	25	33	28	25	32	28	25	23	23	23	23	23	23	23	23	23	23	23																		
10	43	33	27	23	42	32	27	23	32	26	23	31	26	23	30	26	22	21	21	21	21	21	21	21	21	21	21	21																		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2284	2284	2284
5°	2269	2288	2315
10°	2240	2290	2377
15°	2213	2293	2458
20°	2049	2177	2445
25°	1974	2145	2502
30°	1849	2049	2514
35°	1808	2025	2597
40°	1695	1935	2599
45°	1656	1928	2264
50°	1543	1797	1628
55°	1497	1567	1607
60°	1402	1359	1663
65°	1326	1336	1567
70°	1232	1278	1266
75°	1135	1119	764
80°	966	677	586
85°	789	559	444



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	151.5	3.9	3.0
10°-20°	433.6	11.1	8.7
20°-30°	631.8	16.2	12.6
30°-40°	745.4	19.1	14.9
40°-50°	724.6	18.6	14.5
50°-60°	558.6	14.3	11.2
60°-70°	406.9	10.4	8.1
70°-80°	201.0	5.2	4.0
80°-90°	45.0	1.2	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°	1216.9	31.2	24.3
0°-40°	1962.3	50.3	39.2
0°-60°	3245.5	83.3	64.9
0°-90°	3898.3	100.0	78.0
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°	3898.3	100.0	78.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1577	1579	1590	1602	1609	149
15°	1491	1503	1545	1609	1656	413
25°	1248	1269	1356	1478	1582	571
35°	1033	1059	1157	1325	1484	640
45°	817	855	951	1066	1117	624
55°	599	630	627	595	643	532
65°	391	422	394	425	462	387
75°	205	213	202	151	138	217
85°	48	39	34	32	27	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593	1593	1593	1593	1593
5°	1577	1579	1590	1602	1609
10°	1539	1547	1573	1609	1633
15°	1491	1503	1545	1609	1656
20°	1343	1360	1427	1525	1603
25°	1248	1269	1356	1478	1582
30°	1117	1139	1238	1389	1519
35°	1033	1059	1157	1325	1484
40°	906	938	1034	1229	1389
45°	817	855	951	1066	1117
50°	692	730	806	756	730
55°	599	630	627	595	643
60°	489	521	474	513	580
65°	391	422	394	425	462
70°	294	299	305	296	302
75°	205	213	202	151	138
80°	117	126	82	74	71
85°	48	39	34	32	27
90°	0	0	0	0	0

(END OF REPORT)