

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. 10665.0

Luminaire Tested: **7VC/1242/T5HO/S/120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 10665.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 7VC/1242/T5HO/S/120
Description: 2/54W T5HO 4'DIRECT ASYMM RECESSED LUMINAIRE w/GRAY BODY
Light Source: -
FP54T5/835
Ballast/Driver: SYLVANIA BALLAST #QT 2x54/120 PHO

Summary

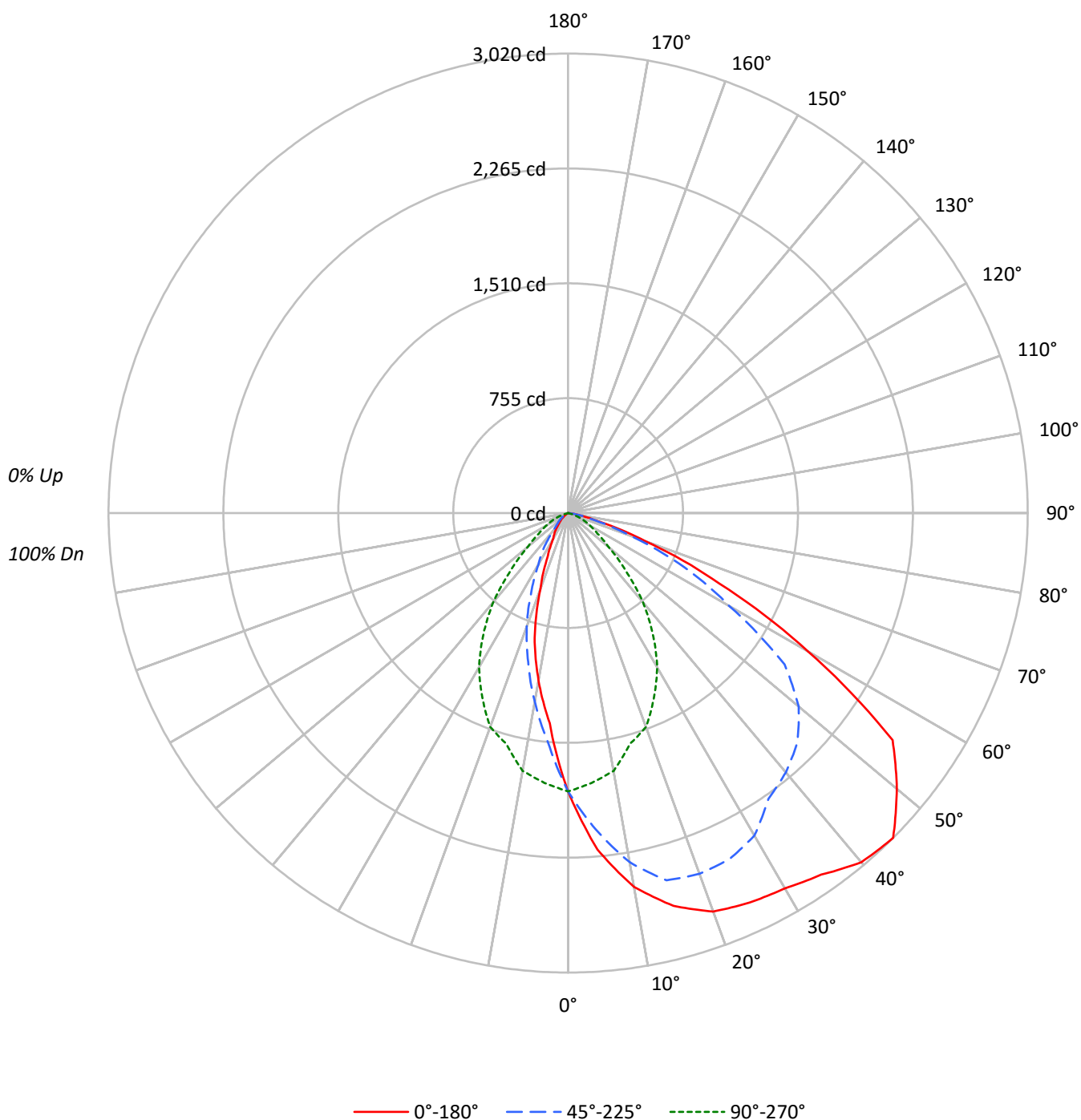
Lumens per Lamp: 5000 (2 lamps)
Luminaire Lumens: 4169.4 lumens
Efficiency: 41.7%
Efficacy: 34.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1 / 1.31
Luminous Opening: Rectangular (W 3.94' x L: 0.88' x H: 0')
CIE Type: Direct

Input Watts (W): 121
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	50	50	50	50	48	48	48	48	46	46	46	44	44	44	43	43	43	43	43	42
1	46	44	43	42	45	43	42	41	42	41	40	40	39	38	39	38	37	37	37	36
2	42	39	37	35	41	39	36	34	37	35	34	36	34	33	35	33	32	32	32	31
3	39	35	32	29	38	34	32	29	33	31	29	32	30	28	31	29	28	28	28	27
4	36	31	28	25	35	31	28	25	30	27	25	29	26	24	28	26	24	24	24	23
5	33	28	25	22	32	28	24	22	27	24	22	26	23	21	25	23	21	21	21	20
6	31	25	22	19	30	25	22	19	24	21	19	24	21	19	23	21	19	19	19	18
7	28	23	20	17	28	23	19	17	22	19	17	22	19	17	21	19	17	17	17	16
8	26	21	18	15	26	21	18	15	20	17	15	20	17	15	19	17	15	15	15	14
9	25	19	16	14	24	19	16	14	19	16	14	18	16	14	18	15	14	14	14	13
10	23	18	15	13	23	18	15	13	17	14	13	17	14	12	17	14	12	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5649	5649	5649
5°	6886	5519	4300
10°	7822	5394	3506
15°	8547	5020	2718
20°	9160	4917	1762
25°	9624	4549	1094
30°	10157	4173	703
35°	10938	3657	569
40°	12079	3080	391
45°	13191	2324	301
50°	13545	1667	197
55°	14011	1260	118
60°	11267	1025	0
65°	8010	819	0
70°	4885	551	0
75°	2208	0	0
80°	1067	0	0
85°	319	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	171.8	4.1	1.7
10°-20°	484.3	11.6	4.8
20°-30°	697.3	16.7	7.0
30°-40°	798.3	19.1	8.0
40°-50°	840.3	20.2	8.4
50°-60°	707.0	17.0	7.1
60°-70°	367.1	8.8	3.7
70°-80°	96.0	2.3	1.0
80°-90°	7.2	0.2	0.1
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°	1353.5	32.5	13.5
0°-40°	2151.8	51.6	21.5
0°-60°	3699.1	88.7	37.0
0°-90°	4169.4	100.0	41.7
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°	4169.4	100.0	41.7

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1829	1829	1829	1829	1829	
5°	2221	2087	1780	1513	1387	217
15°	2673	2499	1570	1014	850	756
25°	2824	2509	1335	571	321	1306
35°	2901	2294	970	274	151	1830
45°	3020	2131	532	99	69	2294
55°	2602	1736	234	45	22	2202
65°	1096	842	112	0	0	1124
75°	185	166	0	0	0	255
85°	9	0	0	0	0	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1829	1829	1829	1829	1829	1829	1829	1829	1829
5°	2221	2186	2087	1929	1780	1647	1513	1435	1387
10°	2494	2524	2331	2082	1720	1466	1261	1157	1118
15°	2673	2690	2499	2055	1570	1233	1014	890	850
20°	2787	2781	2523	2184	1496	1065	795	597	536
25°	2824	2737	2509	2075	1335	907	571	360	321
30°	2848	2713	2448	1999	1170	701	391	213	197
35°	2901	2586	2294	1843	970	458	274	171	151
40°	2996	2598	2225	1712	764	258	147	126	97
45°	3020	2740	2131	1549	532	163	99	87	69
50°	2819	2528	1977	1205	347	120	71	48	41
55°	2602	2312	1736	770	234	88	45	25	22
60°	1824	1710	1226	453	166	56	22	0	0
65°	1096	1083	842	307	112	25	0	0	0
70°	541	557	431	199	61	0	0	0	0
75°	185	218	166	123	0	0	0	0	0
80°	60	77	56	39	0	0	0	0	0
85°	9	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)