

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. 12046.0

Luminaire Tested: **S292 2/24 T5HO S17**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 12046.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S292 2/24 T5HO S17
Description: 2/24W T5HO LAMP 2x2'RECESSED GRID LUMINAIRE w/WHITE REFL
Light Source: -
FP24T5HO/835
Ballast/Driver: SYLVANIA BALLAST #QT2x39-24/120PHO WATTS=56 REFL=92%

Summary

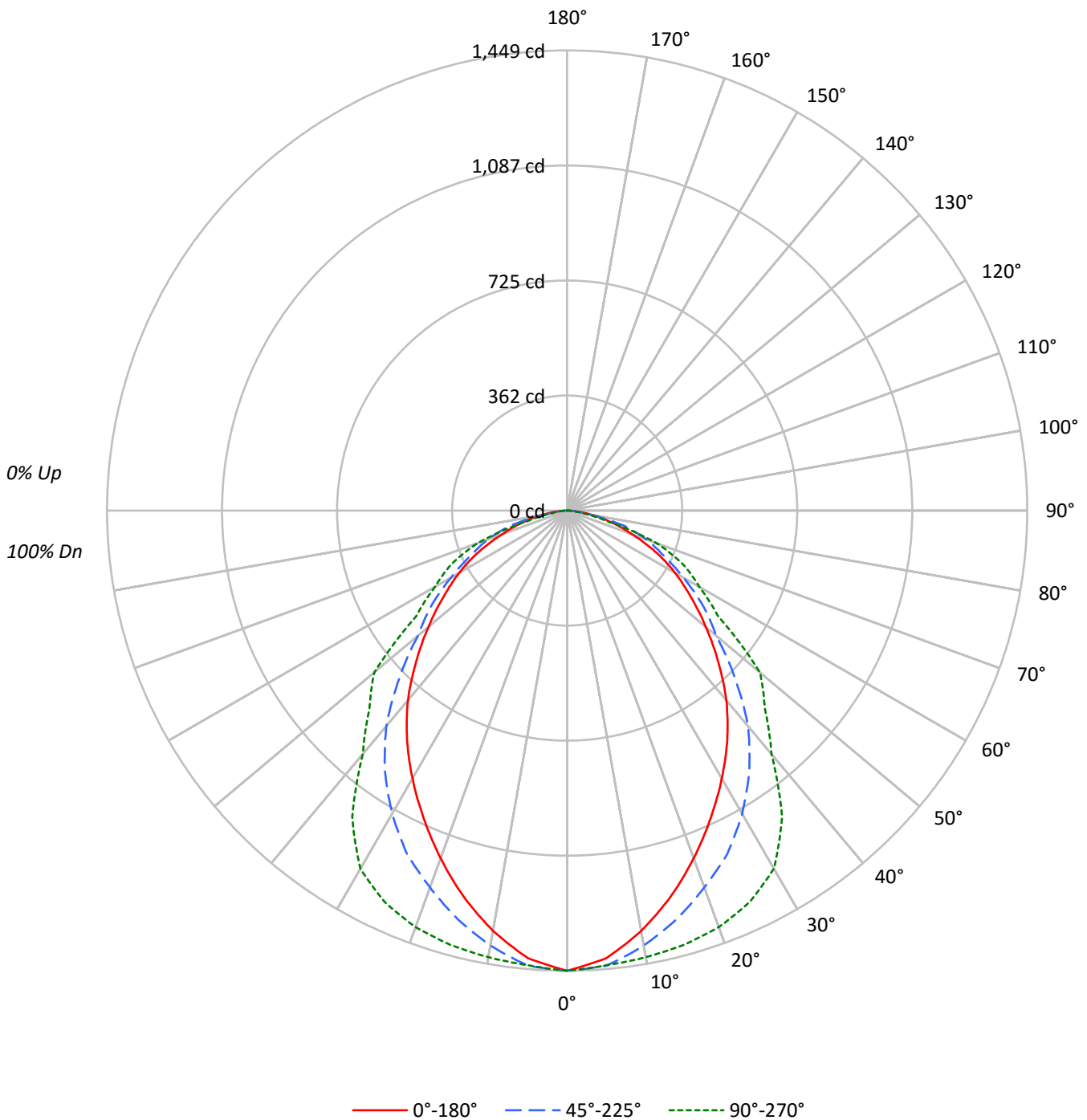
Lumens per Lamp: 2000 (2 lamps)
Luminaire Lumens: 3302.6 lumens
Efficiency: 82.6%
Efficacy: 59.0 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.3 / 1.24
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 56
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	0	
RCR																						
0	98	98	98	98	96	96	96	96	92	92	92	88	88	88	84	84	84	83				
1	91	87	84	81	88	85	82	80	82	79	77	78	77	75	76	74	73	71				
2	83	77	71	67	81	75	70	66	72	68	65	70	66	63	67	64	62	60				
3	76	68	62	57	74	67	61	56	64	59	55	62	58	54	60	56	53	51				
4	70	61	54	48	68	60	53	48	57	52	47	56	51	47	54	50	46	45				
5	65	54	47	42	63	54	47	42	52	46	42	50	45	41	49	44	41	39				
6	60	49	42	37	58	49	42	37	47	41	37	46	40	36	44	40	36	34				
7	56	45	38	33	54	44	38	33	43	37	33	42	36	32	41	36	32	31				
8	52	41	34	30	51	41	34	30	39	34	29	38	33	29	38	33	29	28				
9	49	38	31	27	47	37	31	27	36	31	27	36	30	27	35	30	26	25				
10	46	35	29	25	45	35	29	24	34	28	24	33	28	24	32	28	24	23				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4244	4244	4244
5°	4160	4228	4225
10°	3997	4137	4247
15°	3818	4039	4294
20°	3631	3937	4351
25°	3455	3856	4395
30°	3294	3727	4404
35°	3143	3576	4219
40°	2982	3388	3827
45°	2784	3098	3645
50°	2597	2793	3614
55°	2431	2666	2962
60°	2302	2472	2818
65°	2121	2315	2807
70°	1858	2269	2569
75°	1641	2116	1505
80°	1383	1096	860
85°	941	706	571



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	135.3	4.1	3.4
10°-20°	376.1	11.4	9.4
20°-30°	551.6	16.7	13.8
30°-40°	629.6	19.1	15.7
40°-50°	588.4	17.8	14.7
50°-60°	478.2	14.5	12.0
60°-70°	342.0	10.4	8.6
70°-80°	171.3	5.2	4.3
80°-90°	30.1	0.9	0.8
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°	1063.0	32.2	26.6
0°-40°	1692.6	51.2	42.3
0°-60°	2759.2	83.5	69.0
0°-90°	3302.6	100.0	82.6
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°	3302.6	100.0	82.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1449	1449	1449	1449	1449	
5°	1415	1423	1438	1439	1437	133
15°	1259	1282	1332	1385	1416	354
25°	1069	1102	1193	1284	1360	493
35°	879	915	1000	1107	1180	550
45°	672	716	748	788	880	520
55°	476	504	522	565	580	428
65°	306	318	334	377	405	302
75°	145	152	187	164	133	155
85°	28	25	21	19	17	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1449	1449	1449	1449	1449
5°	1415	1423	1438	1439	1437
10°	1344	1359	1391	1415	1428
15°	1259	1282	1332	1385	1416
20°	1165	1197	1263	1340	1396
25°	1069	1102	1193	1284	1360
30°	974	1003	1102	1216	1302
35°	879	915	1000	1107	1180
40°	780	815	886	939	1001
45°	672	716	748	788	880
50°	570	601	613	714	793
55°	476	504	522	565	580
60°	393	408	422	442	481
65°	306	318	334	377	405
70°	217	228	265	297	300
75°	145	152	187	164	133
80°	82	78	65	58	51
85°	28	25	21	19	17
90°	0	0	0	0	0

(END OF REPORT)