

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. 12047.0

Luminaire Tested: **S292 1/24 T5HO S17**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 12047.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S292 1/24 T5HO S17
Description: 1/24W T5HO 2x2'RECESSED GRID LUMINAIRE w/WHITE REFLECTOR
Light Source: -
FP24T5HO/835
Ballast/Driver: SYLVANIA BALLAST #QT1x39-24/120PHO WATTS=29 REFL=92%

Summary

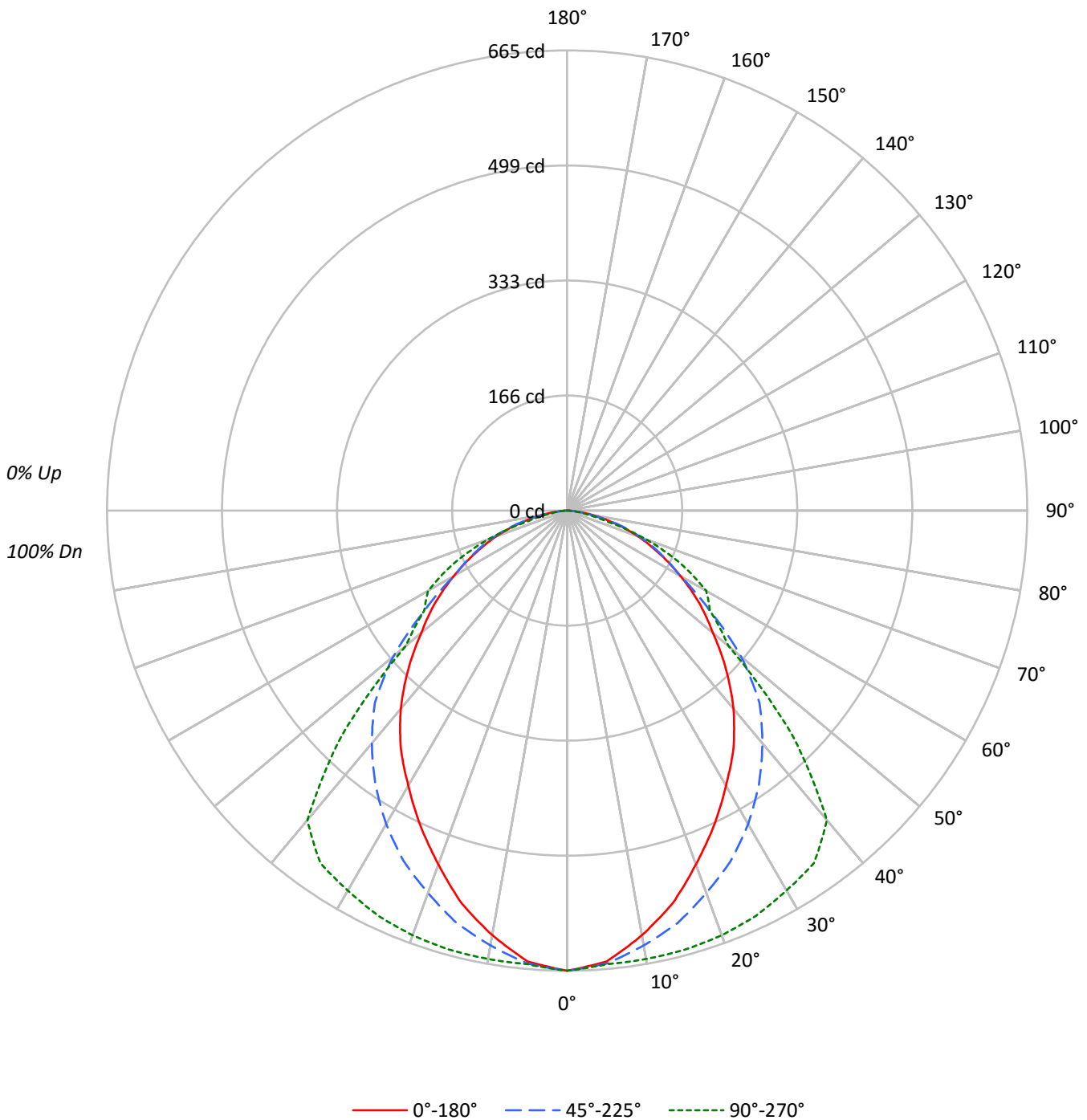
Lumens per Lamp: 2000 (1 lamp)
Luminaire Lumens: 1573.8 lumens
Efficiency: 78.7%
Efficacy: 54.3 lumens/watt
Spacing Criteria (0/90/45): 1.05 / 1.43 / 1.31
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29
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	94	94	94	94	92	92	92	92	87	87	87		84	84	84		80	80	80	79
1	86	83	80	77	84	81	79	76	78	76	74		75	73	71		72	71	69	68
2	79	73	68	64	77	72	67	63	69	65	62		67	63	61		64	62	59	58
3	73	65	59	54	71	64	58	54	61	57	53		59	55	52		57	54	51	49
4	67	58	51	46	65	57	51	46	55	50	46		53	49	45		52	48	44	43
5	62	52	45	40	60	51	45	40	50	44	40		48	43	39		47	42	39	37
6	57	47	40	36	56	46	40	35	45	39	35		44	39	35		42	38	35	33
7	53	43	36	32	52	42	36	31	41	35	31		40	35	31		39	34	31	29
8	49	39	33	28	48	39	33	28	38	32	28		37	32	28		36	31	28	26
9	46	36	30	26	45	36	30	26	35	29	25		34	29	25		33	29	25	24
10	43	33	27	23	42	33	27	23	32	27	23		31	27	23		31	26	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1948	1948	1948
5°	1923	1932	1935
10°	1853	1898	1957
15°	1783	1871	1992
20°	1696	1833	2035
25°	1622	1807	2088
30°	1552	1769	2144
35°	1498	1727	2224
40°	1430	1679	2233
45°	1346	1628	1914
50°	1253	1495	1385
55°	1190	1282	1287
60°	1107	1101	1359
65°	1019	1040	1254
70°	933	968	1036
75°	792	849	645
80°	624	523	405
85°	403	336	235



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	62.1	3.9	3.1
10°-20°	174.4	11.1	8.7
20°-30°	260.2	16.5	13.0
30°-40°	311.8	19.8	15.6
40°-50°	299.3	19.0	15.0
50°-60°	223.0	14.2	11.2
60°-70°	156.6	10.0	7.8
70°-80°	73.1	4.6	3.7
80°-90°	13.2	0.8	0.7
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°	496.8	31.6	24.8
0°-40°	808.6	51.4	40.4
0°-60°	1330.9	84.6	66.5
0°-90°	1573.8	100.0	78.7
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°	1573.8	100.0	78.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	665	665	665	665	665	
5°	654	653	657	658	658	61
15°	588	595	617	641	657	165
25°	502	518	559	609	646	231
35°	419	435	483	559	622	262
45°	325	347	393	440	462	251
55°	233	248	251	235	252	208
65°	147	154	150	166	181	147
75°	70	71	75	58	57	75
85°	12	10	10	7	7	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	665	665	665	665	665
5°	654	653	657	658	658
10°	623	626	638	652	658
15°	588	595	617	641	657
20°	544	556	588	626	653
25°	502	518	559	609	646
30°	459	474	523	586	634
35°	419	435	483	559	622
40°	374	393	439	525	584
45°	325	347	393	440	462
50°	275	295	328	315	304
55°	233	248	251	235	252
60°	189	206	188	205	232
65°	147	154	150	166	181
70°	109	108	113	118	121
75°	70	71	75	58	57
80°	37	34	31	25	24
85°	12	10	10	7	7
90°	0	0	0	0	0

(END OF REPORT)