

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. 12044.0

Luminaire Tested: **S292 1/50 BX S17**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: BALLABS TEST NO. 12044.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S292 1/50 BX S17  
Description: 1/50W BIAX LAMP 2x2'RECESSED GRID LUMINAIRE w/WHITE REFL  
Light Source: -  
FT50W/2G11/835  
Ballast/Driver: UNIVERSAL BALLAST #B254PUNV-D WATTS=58 REFL=92%

**Summary**

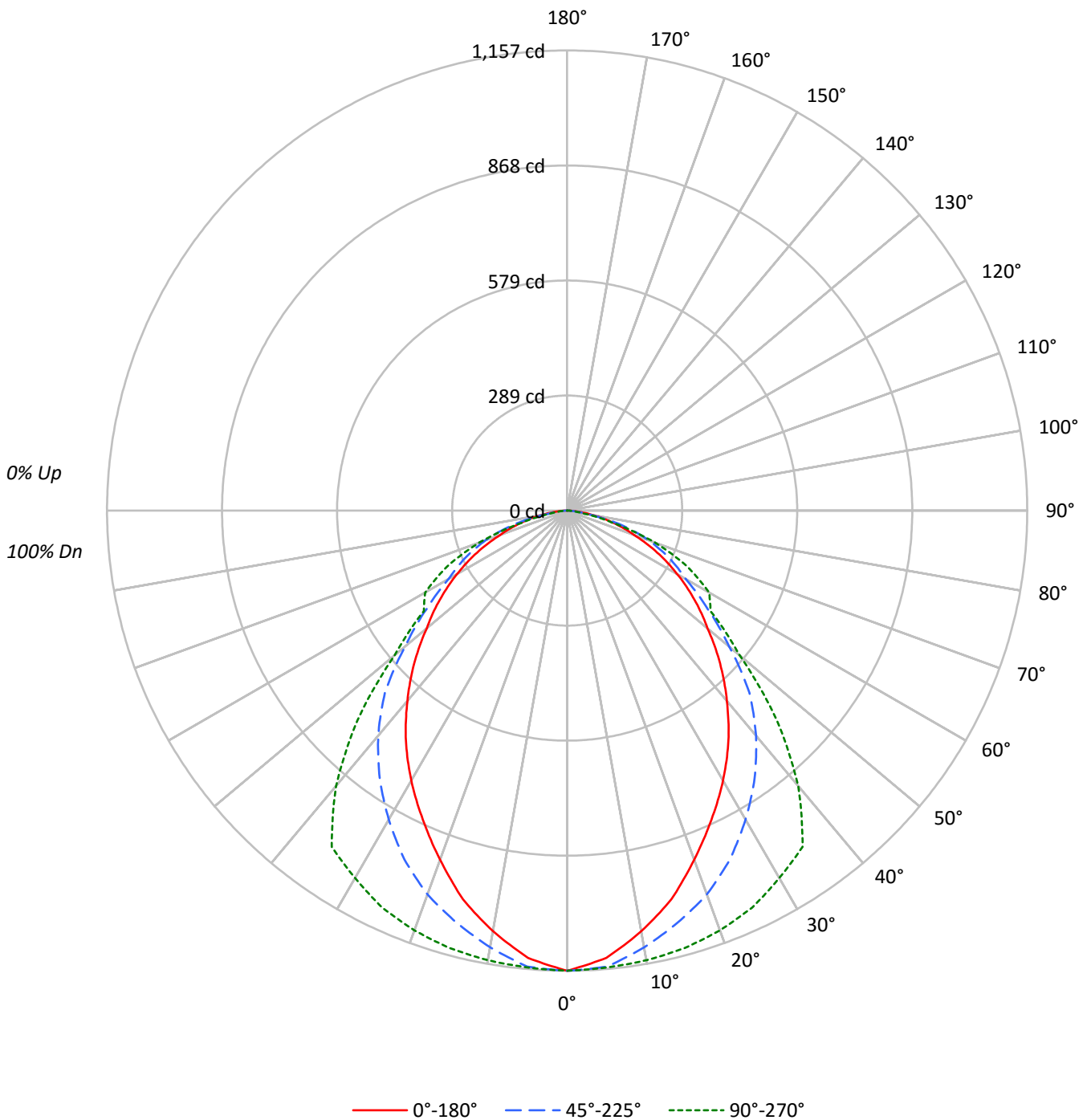
Lumens per Lamp: 4000 (1 lamp)  
Luminaire Lumens: 2707.3 lumens  
Efficiency: 67.7%  
Efficacy: 46.7 lumens/watt  
Spacing Criteria (0/90/45): 1.03 / 1.38 / 1.28  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct

Input Watts (W): 58  
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	81	81	81	81	79	79	79	79	75	75	75	72	72	72	69	69	69	68
1	74	71	69	66	72	70	67	65	67	65	63	64	63	61	62	61	59	58
2	68	63	59	55	66	62	58	54	59	56	53	57	54	52	55	53	51	49
3	62	56	50	46	61	55	50	46	53	48	45	51	47	44	49	46	44	42
4	57	50	44	40	56	49	43	39	47	42	39	46	42	38	44	41	38	36
5	53	45	39	34	52	44	38	34	42	38	34	41	37	34	40	36	33	32
6	49	40	35	30	48	40	34	30	39	34	30	37	33	30	36	32	29	28
7	46	37	31	27	44	36	31	27	35	30	27	34	30	27	33	29	26	25
8	42	34	28	24	41	33	28	24	32	27	24	31	27	24	31	27	24	22
9	40	31	26	22	39	31	25	22	30	25	22	29	25	22	28	24	22	20
10	37	29	23	20	36	28	23	20	28	23	20	27	23	20	26	22	20	19

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3389	3389	3389
5°	3320	3384	3390
10°	3194	3316	3414
15°	3069	3254	3454
20°	2911	3201	3500
25°	2773	3128	3558
30°	2652	3034	3609
35°	2528	2939	3690
40°	2390	2826	3457
45°	2253	2684	3090
50°	2101	2424	2579
55°	1997	2206	2247
60°	1875	2015	2414
65°	1733	1968	2308
70°	1533	1867	2013
75°	1369	1630	1324
80°	1113	894	725
85°	773	538	437



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	108.3	4.0	2.7
10°-20°	302.7	11.2	7.6
20°-30°	447.1	16.5	11.2
30°-40°	523.5	19.3	13.1
40°-50°	493.1	18.2	12.3
50°-60°	385.6	14.2	9.6
60°-70°	283.8	10.5	7.1
70°-80°	138.7	5.1	3.5
80°-90°	24.4	0.9	0.6
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°	858.1	31.7	21.5
0°-40°	1381.6	51.0	34.5
0°-60°	2260.4	83.5	56.5
0°-90°	2707.3	100.0	67.7
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°	2707.3	100.0	67.7

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1157	1157	1157	1157	1157	
5°	1129	1131	1151	1158	1153	106
15°	1012	1029	1073	1117	1139	284
25°	858	887	968	1048	1101	396
35°	707	734	822	941	1032	442
45°	544	575	648	700	746	420
55°	391	414	432	428	440	350
65°	250	269	284	314	333	247
75°	121	129	144	130	117	128
85°	23	19	16	15	13	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1157	1157	1157	1157	1157
5°	1129	1131	1151	1158	1153
10°	1074	1082	1115	1144	1148
15°	1012	1029	1073	1117	1139
20°	934	960	1027	1086	1123
25°	858	887	968	1048	1101
30°	784	810	897	1001	1067
35°	707	734	822	941	1032
40°	625	656	739	846	904
45°	544	575	648	700	746
50°	461	491	532	550	566
55°	391	414	432	428	440
60°	320	342	344	380	412
65°	250	269	284	314	333
70°	179	186	218	227	235
75°	121	129	144	130	117
80°	66	69	53	46	43
85°	23	19	16	15	13
90°	0	0	0	0	0

(END OF REPORT)