

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. 12043.0

Luminaire Tested: **S292 1/40 BX S17**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 12043.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S292 1/40 BX S17
Description: 1/40W BIAX LAMP 2x2'RECESSED GRID LUMINAIRE w/WHITE REFL
Light Source: -
FT40W/2G11/835/RS
Ballast/Driver: UNIVERSAL BALLAST #C240UNVHP-B WATTS=40 REFL=92%

Summary

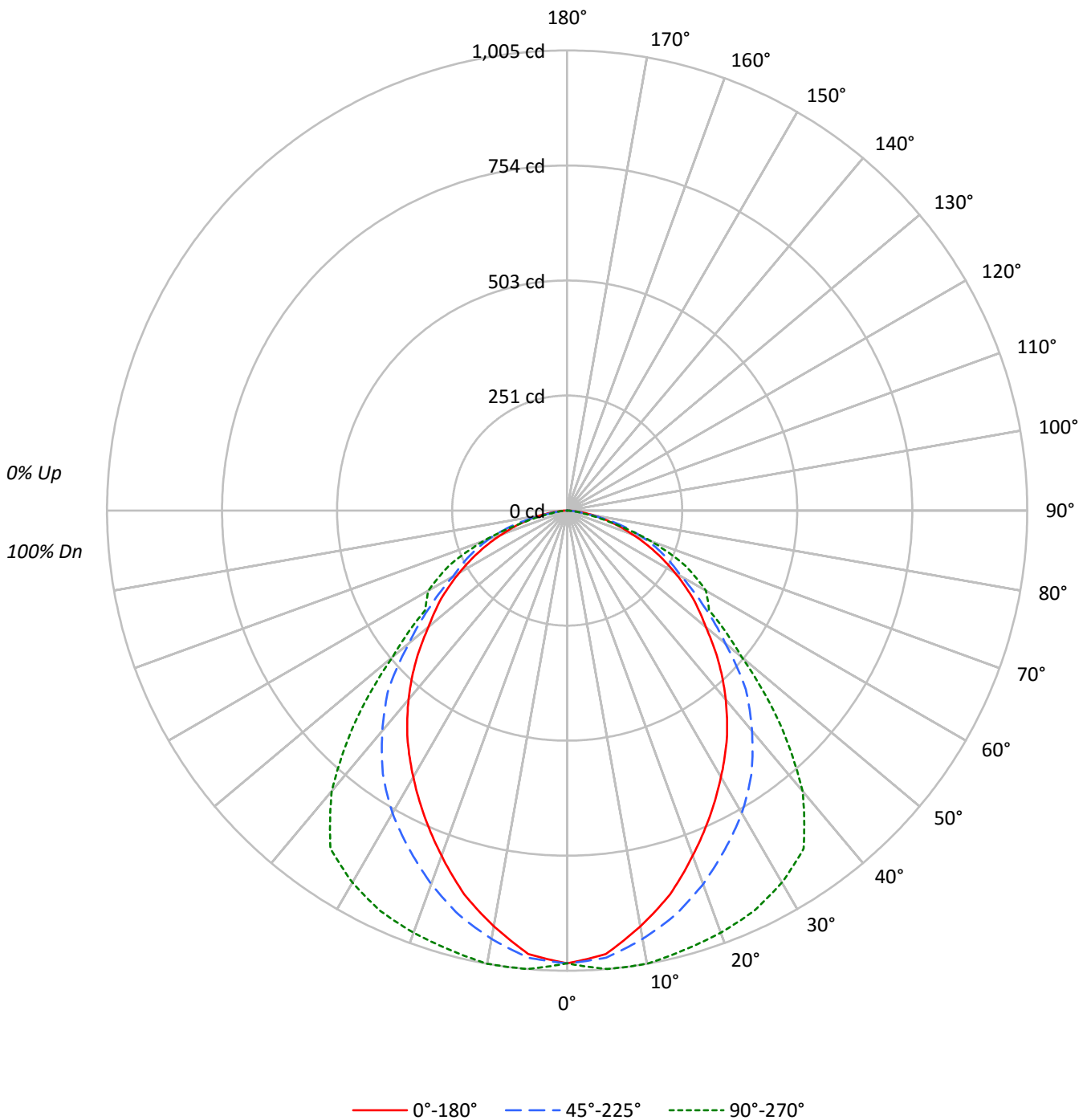
Lumens per Lamp: 3150 (1 lamp)
Luminaire Lumens: 2306.0 lumens
Efficiency: 73.2%
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.4 / 1.28
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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	87	87	87	87	85	85	85	85	81	81	81		78	78	78		75	75	75	73
1	80	77	74	72	78	76	73	71	72	70	68		70	68	66		67	66	64	63
2	74	68	63	60	72	67	62	59	64	61	57		62	59	56		60	57	55	53
3	68	60	55	50	66	59	54	50	57	53	49		55	51	48		53	50	47	46
4	62	54	48	43	60	53	47	43	51	46	42		49	45	42		48	44	41	40
5	57	48	42	37	56	48	42	37	46	41	37		45	40	36		43	39	36	35
6	53	44	37	33	52	43	37	33	42	36	33		41	36	32		39	35	32	31
7	49	40	34	29	48	39	33	29	38	33	29		37	32	29		36	32	29	27
8	46	36	30	26	45	36	30	26	35	30	26		34	29	26		33	29	26	24
9	43	34	28	24	42	33	28	24	32	27	24		32	27	24		31	27	23	22
10	40	31	25	22	40	31	25	22	30	25	22		29	25	21		29	24	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2897	2897	2897
5°	2858	2881	2955
10°	2742	2826	2989
15°	2632	2772	3011
20°	2500	2706	3058
25°	2382	2637	3119
30°	2273	2581	3172
35°	2174	2510	3222
40°	2061	2401	3059
45°	1939	2287	2721
50°	1800	2055	2269
55°	1716	1864	1930
60°	1593	1687	2050
65°	1462	1636	1975
70°	1293	1559	1661
75°	1132	1335	1064
80°	945	725	590
85°	639	470	370



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	92.8	4.0	2.9
10°-20°	259.2	11.2	8.2
20°-30°	382.5	16.6	12.1
30°-40°	449.3	19.5	14.3
40°-50°	422.8	18.3	13.4
50°-60°	327.5	14.2	10.4
60°-70°	238.4	10.3	7.6
70°-80°	113.8	4.9	3.6
80°-90°	19.7	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°	734.5	31.9	23.3
0°-40°	1183.8	51.3	37.6
0°-60°	1934.2	83.9	61.4
0°-90°	2306.0	100.0	73.2
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°	2306.0	100.0	73.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	972	972	980	985	1005	91
15°	868	883	914	951	993	244
25°	737	759	816	892	965	340
35°	608	632	702	801	901	380
45°	468	493	552	593	657	361
55°	336	354	365	356	378	299
65°	211	223	236	264	285	209
75°	100	106	118	101	94	107
85°	19	15	14	11	11	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	989	989	989	989	989
5°	972	972	980	985	1005
10°	922	930	950	975	1005
15°	868	883	914	951	993
20°	802	822	868	924	981
25°	737	759	816	892	965
30°	672	696	763	853	938
35°	608	632	702	801	901
40°	539	563	628	721	800
45°	468	493	552	593	657
50°	395	422	451	468	498
55°	336	354	365	356	378
60°	272	294	288	314	350
65°	211	223	236	264	285
70°	151	160	182	189	194
75°	100	106	118	101	94
80°	56	53	43	38	35
85°	19	15	14	11	11
90°	0	0	0	0	0

(END OF REPORT)