

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. 11778.0

Luminaire Tested: **S242/3BX40W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 11778.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S242/3BX40W
Description: 3/40W BIAX 2x2'RECESSED GRID MNT LUMINAIRE w/WHITE REFL
Light Source: -
FT40W/2G11/835/RS
Ballast/Driver: 2 UNIVERSAL BALLAST #C240SI120RH WATTS=98 REFL=94%

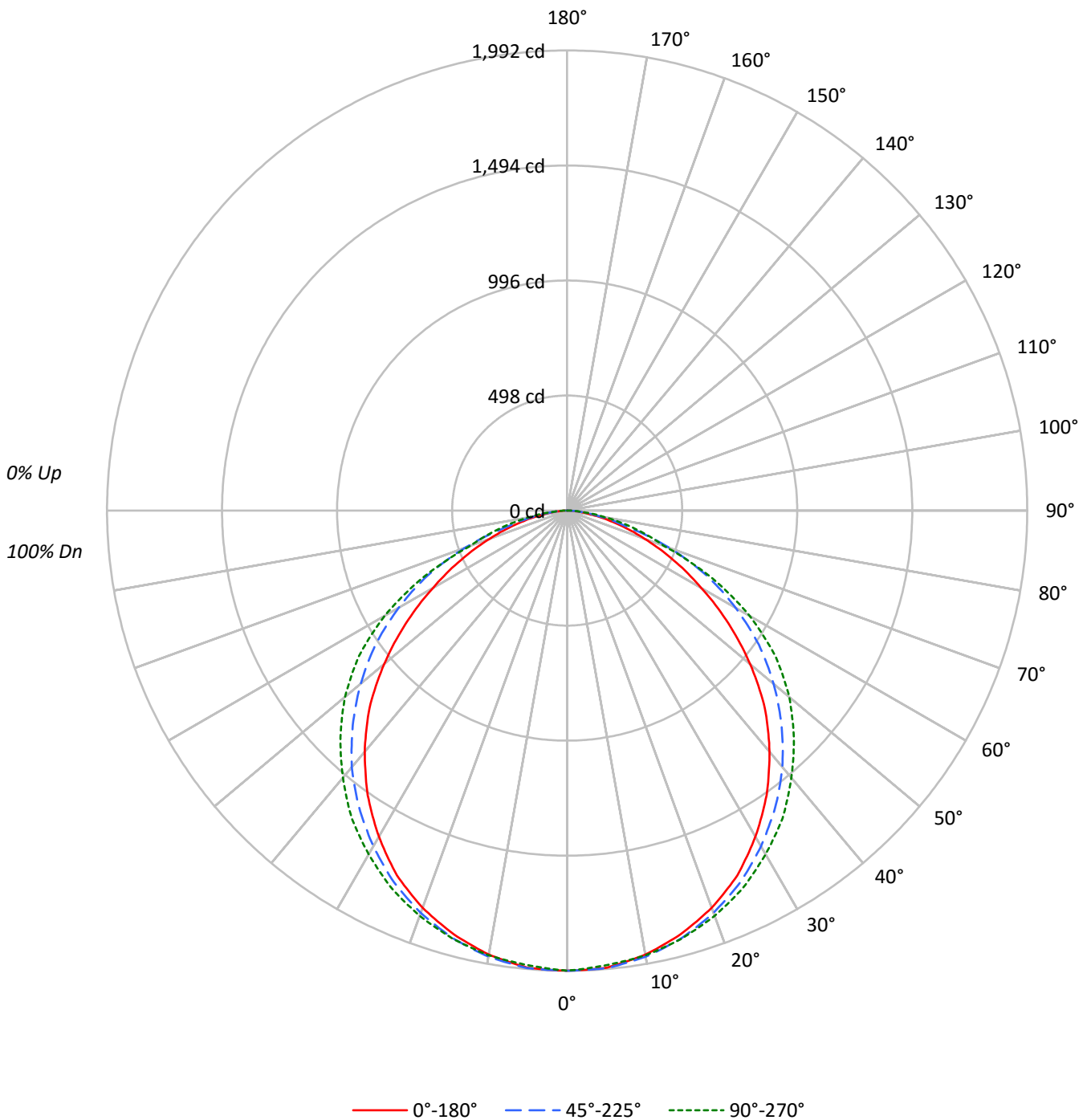
Summary

Lumens per Lamp: 3150 (3 lamps)
Luminaire Lumens: 5399.1 lumens
Efficiency: 57.1%
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 98
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	68	68	68	68	66	66	66	66	63	63	63		61	61	61		58	58	58	57
1	62	60	58	55	61	59	56	55	56	54	53		54	53	51		52	51	50	48
2	57	52	49	45	55	51	48	45	49	46	44		47	45	43		46	44	42	41
3	52	46	42	38	51	45	41	38	44	40	37		42	39	36		41	38	36	34
4	48	41	36	32	46	40	36	32	39	35	32		37	34	31		36	33	31	30
5	44	37	32	28	43	36	31	28	35	31	27		34	30	27		33	29	27	26
6	41	33	28	24	39	32	28	24	31	27	24		30	27	24		30	26	24	22
7	38	30	25	21	37	29	25	21	29	24	21		28	24	21		27	24	21	20
8	35	27	22	19	34	27	22	19	26	22	19		25	22	19		25	21	19	18
9	33	25	20	17	32	25	20	17	24	20	17		23	20	17		23	19	17	16
10	31	23	19	16	30	23	19	16	22	18	16		22	18	15		21	18	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5835	5835	5835
5°	5839	5845	5807
10°	5806	5832	5815
15°	5758	5810	5816
20°	5704	5776	5819
25°	5633	5737	5824
30°	5513	5675	5811
35°	5381	5614	5814
40°	5212	5544	5774
45°	5016	5435	5750
50°	4712	5318	5719
55°	4356	5173	5628
60°	3931	4933	5348
65°	3521	4630	4803
70°	3057	4016	3811
75°	2546	2988	3452
80°	2007	2378	2800
85°	1411	1748	2016



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	188.6	3.5	2.0
10°-20°	539.8	10.0	5.7
20°-30°	816.3	15.1	8.6
30°-40°	980.4	18.2	10.4
40°-50°	1005.8	18.6	10.6
50°-60°	886.2	16.4	9.4
60°-70°	623.6	11.6	6.6
70°-80°	292.8	5.4	3.1
80°-90°	65.6	1.2	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°	1544.6	28.6	16.3
0°-40°	2525.1	46.8	26.7
0°-60°	4417.1	81.8	46.7
0°-90°	5399.1	100.0	57.1
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°	5399.1	100.0	57.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1992	1992	1992	1992	1992	
5°	1986	1986	1988	1985	1975	188
15°	1899	1905	1916	1923	1918	536
25°	1743	1746	1775	1794	1802	802
35°	1505	1532	1570	1606	1626	940
45°	1211	1239	1312	1366	1388	930
55°	853	910	1013	1075	1102	763
65°	508	571	668	703	693	506
75°	225	261	264	286	305	244
85°	42	43	52	53	60	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1992	1992	1992	1992	1992
5°	1986	1986	1988	1985	1975
10°	1952	1953	1961	1963	1955
15°	1899	1905	1916	1923	1918
20°	1830	1835	1853	1866	1867
25°	1743	1746	1775	1794	1802
30°	1630	1644	1678	1708	1718
35°	1505	1532	1570	1606	1626
40°	1363	1400	1450	1491	1510
45°	1211	1239	1312	1366	1388
50°	1034	1078	1167	1231	1255
55°	853	910	1013	1075	1102
60°	671	734	842	907	913
65°	508	571	668	703	693
70°	357	413	469	441	445
75°	225	261	264	286	305
80°	119	122	141	160	166
85°	42	43	52	53	60
90°	0	0	0	0	0

(END OF REPORT)