

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. 10669.0

Luminaire Tested: **7VC/1241/50BX/S/120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 10669.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 7VC/1241/50BX/S/120
Description: 2/50W BIAx 4'DIRECT ASYMM RECESSED LUMIAIRE w/GRAY BODY
Light Source: -
FT50W/2G11/RS/35
Ballast/Driver: ADVANCE BALLAST #REL-2TTS50

Summary

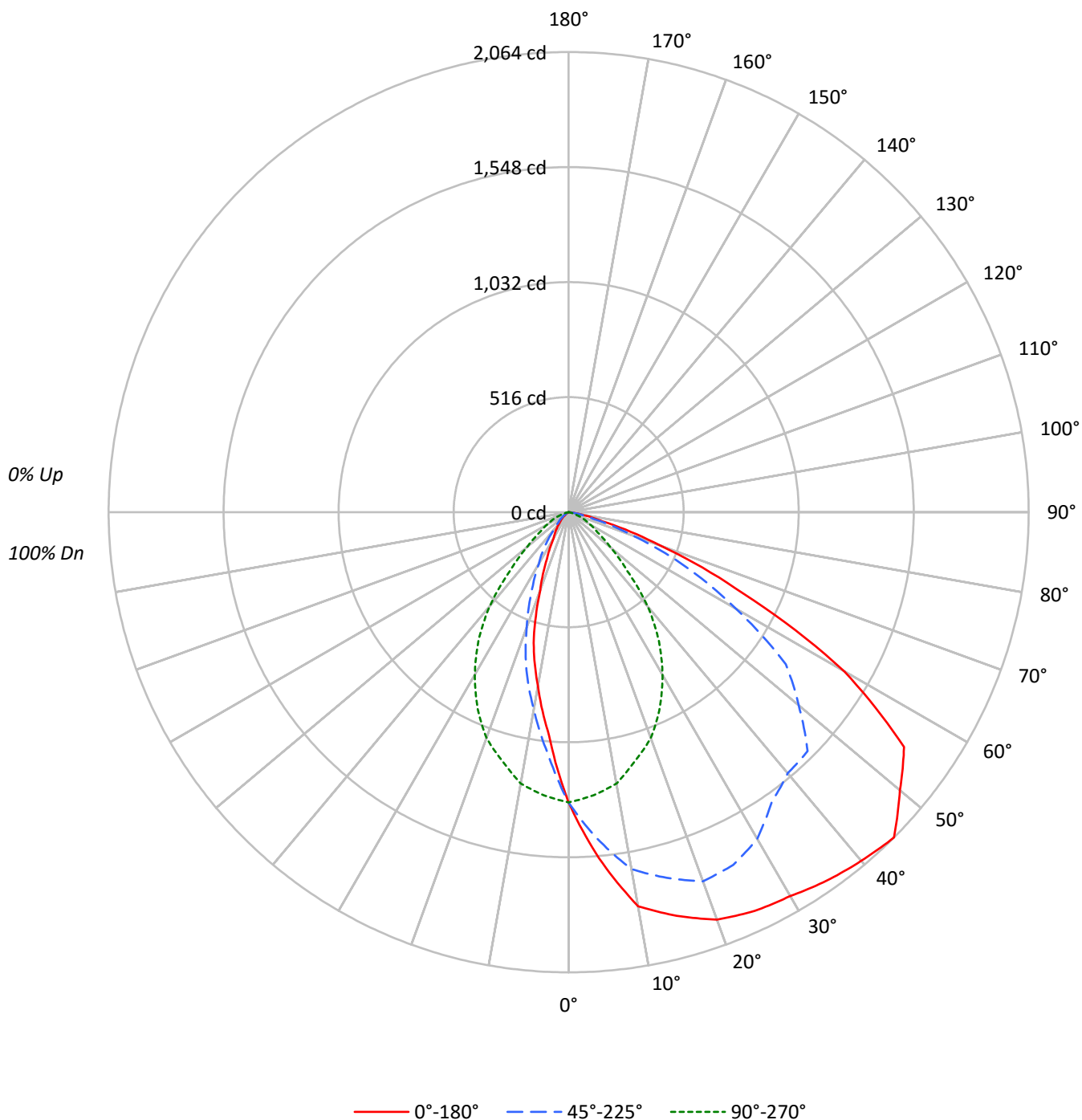
Lumens per Lamp: 4000 (2 lamps)
Luminaire Lumens: 2916.2 lumens
Efficiency: 36.5%
Efficacy: 31.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.02 / 1.29
Luminous Opening: Rectangular (W 3.94' x L: 0.88' x H: 0')
CIE Type: Direct

Input Watts (W): 94
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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	43	43	43	43	42	42	42	42	41	41	41	39	39	39	37	37	37
1	40	39	37	36	39	38	37	36	36	35	35	35	34	34	34	33	33
2	37	34	32	30	36	34	32	30	32	31	29	31	30	29	30	29	28
3	34	31	28	26	33	30	27	25	29	27	25	28	26	25	27	26	24
4	31	27	24	22	30	27	24	22	26	24	22	25	23	21	24	23	21
5	29	24	21	19	28	24	21	19	23	21	19	23	20	19	22	20	18
6	27	22	19	17	26	22	19	17	21	19	17	21	18	17	20	18	16
7	25	20	17	15	24	20	17	15	19	17	15	19	16	15	18	16	15
8	23	18	15	13	23	18	15	13	18	15	13	17	15	13	17	15	13
9	22	17	14	12	21	17	14	12	16	14	12	16	14	12	16	13	12
10	20	16	13	11	20	15	13	11	15	13	11	15	13	11	14	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4021	4021	4021
5°	4827	3953	3116
10°	5629	3876	2490
15°	5992	3690	1941
20°	6393	3543	1226
25°	6727	3299	787
30°	7090	3003	481
35°	7609	2662	373
40°	8233	2226	258
45°	9015	1616	197
50°	9321	1172	120
55°	9892	856	70
60°	8821	692	0
65°	6321	563	0
70°	3910	343	0
75°	1838	179	0
80°	872	0	0
85°	213	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	121.8	4.2	1.5
10°-20°	340.0	11.7	4.2
20°-30°	486.9	16.7	6.1
30°-40°	553.4	19.0	6.9
40°-50°	577.8	19.8	7.2
50°-60°	491.9	16.9	6.1
60°-70°	267.0	9.2	3.3
70°-80°	71.8	2.5	0.9
80°-90°	5.6	0.2	0.1
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°	948.7	32.5	11.9
0°-40°	1502.1	51.5	18.8
0°-60°	2571.9	88.2	32.1
0°-90°	2916.2	100.0	36.5
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°	2916.2	100.0	36.5

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1302	1302	1302	1302	1302	
5°	1557	1470	1275	1084	1005	154
15°	1874	1698	1154	733	607	532
25°	1974	1746	968	393	231	912
35°	2018	1588	706	188	99	1267
45°	2064	1516	370	65	45	1569
55°	1837	1190	159	27	13	1576
65°	865	581	77	0	0	886
75°	154	114	15	0	0	208
85°	6	0	0	0	0	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1302	1302	1302	1302	1302	1302	1302	1302	1302
5°	1557	1529	1470	1372	1275	1174	1084	1029	1005
10°	1795	1752	1626	1459	1236	1043	899	826	794
15°	1874	1804	1698	1441	1154	892	733	647	607
20°	1945	1967	1762	1498	1078	744	550	420	373
25°	1974	1912	1746	1432	968	632	393	254	231
30°	1988	1899	1692	1375	842	458	267	148	135
35°	2018	1804	1588	1269	706	302	188	116	99
40°	2042	1800	1529	1166	552	178	100	84	64
45°	2064	1878	1516	1043	370	112	65	57	45
50°	1940	1736	1347	807	244	81	45	32	25
55°	1837	1624	1190	508	159	58	27	16	13
60°	1428	1287	865	290	112	37	13	0	0
65°	865	833	581	188	77	0	0	0	0
70°	433	430	303	123	38	0	0	0	0
75°	154	176	114	76	15	0	0	0	0
80°	49	61	40	32	0	0	0	0	0
85°	6	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)