

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. 10668.0

Luminaire Tested: **7VC/1221/50BX/S/120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 10668.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 7VC/1221/50BX/S/120
Description: 1/50W BIAx 2'DIRECT ASYMM RECESSED LUMINAIRE w/GRAY BODY
Light Source: -
FT50W/2G11/35
Ballast/Driver: ENERGY SAVINGS BALLAST #ES-1-CFT-50-120-A

Summary

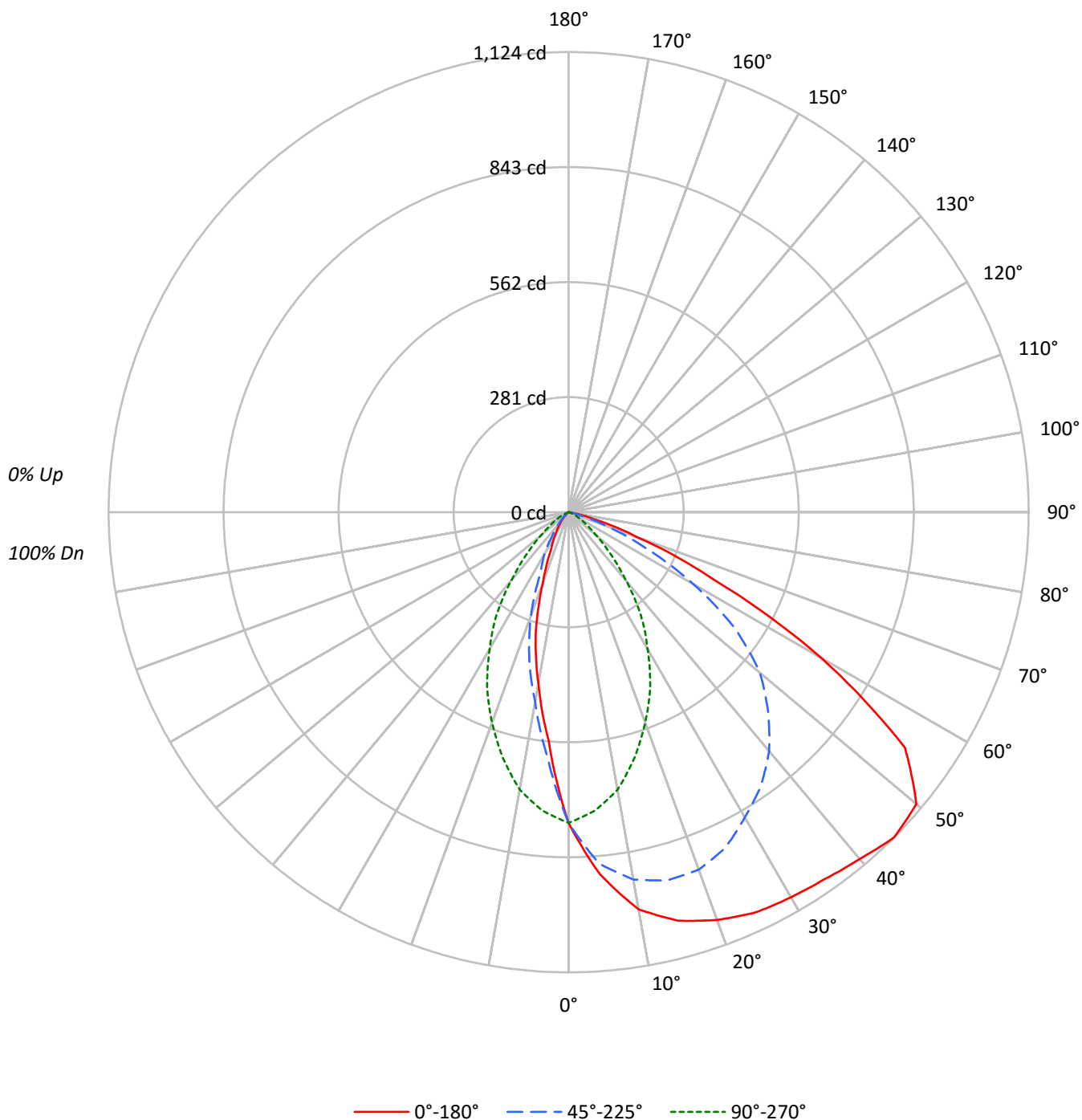
Lumens per Lamp: 4000 (1 lamp)
Luminaire Lumens: 1400.7 lumens
Efficiency: 35.0%
Efficacy: 29.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 0.87 / 1.16
Luminous Opening: Rectangular (W 1.94' x L: 0.88' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	42	42	42	42	41	41	41	41	39	39	39	37	37	37	36	36	36
1	39	38	36	35	38	37	36	35	35	34	34	34	33	33	33	32	32
2	36	33	31	30	35	33	31	29	32	30	29	31	29	28	29	28	27
3	33	30	27	25	32	29	27	25	28	26	25	27	26	24	27	25	24
4	31	27	24	22	30	26	24	22	26	23	22	25	23	21	24	22	21
5	28	24	21	19	28	24	21	19	23	21	19	22	20	19	22	20	19
6	26	22	19	17	26	22	19	17	21	19	17	20	18	17	20	18	17
7	24	20	17	15	24	20	17	15	19	17	15	19	17	15	18	16	15
8	23	18	16	14	22	18	15	14	18	15	14	17	15	13	17	15	13
9	21	17	14	12	21	17	14	12	16	14	12	16	14	12	16	14	12
10	20	16	13	11	20	16	13	11	15	13	11	15	13	11	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4763	4763	4763
5°	5601	4611	3534
10°	6277	4384	2708
15°	6712	4035	2021
20°	7079	3653	1236
25°	7472	3262	713
30°	7870	2797	486
35°	8374	2360	329
40°	9061	1786	213
45°	9976	1278	115
50°	10828	849	59
55°	10974	580	33
60°	8962	377	0
65°	5866	238	0
70°	3285	55	0
75°	1406	0	0
80°	398	0	0
85°	72	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	68.6	4.9	1.7
10°-20°	181.4	12.9	4.5
20°-30°	247.3	17.7	6.2
30°-40°	276.3	19.7	6.9
40°-50°	273.8	19.5	6.8
50°-60°	224.9	16.1	5.6
60°-70°	106.5	7.6	2.7
70°-80°	21.2	1.5	0.5
80°-90°	0.7	0.1	0.0
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°	497.3	35.5	12.4
0°-40°	773.6	55.2	19.3
0°-60°	1272.3	90.8	31.8
0°-90°	1400.7	100.0	35.0
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°	1400.7	100.0	35.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	759	759	759	759	759	
5°	889	862	732	599	561	87
15°	1033	931	621	371	311	292
25°	1079	905	471	161	103	498
35°	1093	818	308	68	43	688
45°	1124	689	144	20	13	864
55°	1003	497	53	4	3	856
65°	395	209	16	0	0	415
75°	58	28	0	0	0	80
85°	1	0	0	0	0	4
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°	759	759	759	759	759	759	759	759	759
5°	889	890	862	810	732	662	599	558	561
10°	985	967	911	815	688	547	471	425	425
15°	1033	1001	931	804	621	452	371	322	311
20°	1060	1016	929	775	547	370	269	200	185
25°	1079	1016	905	737	471	290	161	109	103
30°	1086	1004	861	685	386	191	117	68	67
35°	1093	986	818	618	308	114	68	48	43
40°	1106	965	762	532	218	60	39	31	26
45°	1124	945	689	419	144	36	20	16	13
50°	1109	910	610	286	87	26	11	7	6
55°	1003	815	497	170	53	19	4	2	3
60°	714	589	352	99	30	6	0	0	0
65°	395	339	209	59	16	1	0	0	0
70°	179	157	96	33	3	0	0	0	0
75°	58	54	28	12	0	0	0	0	0
80°	11	11	4	0	0	0	0	0	0
85°	1	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)