

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. 10666.0

Luminaire Tested: **7VC/1221/40BX/S/120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 10666.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 7VC/1221/40BX/S/120
Description: 1/40W BIAx 2'DIRECT ASYMM RECESSED LUMINAIRE w/GRAY BODY
Light Source: -
FT40W/2G11/RS/35
Ballast/Driver: MAGNETEK BALLAST #C240I120RH

Summary

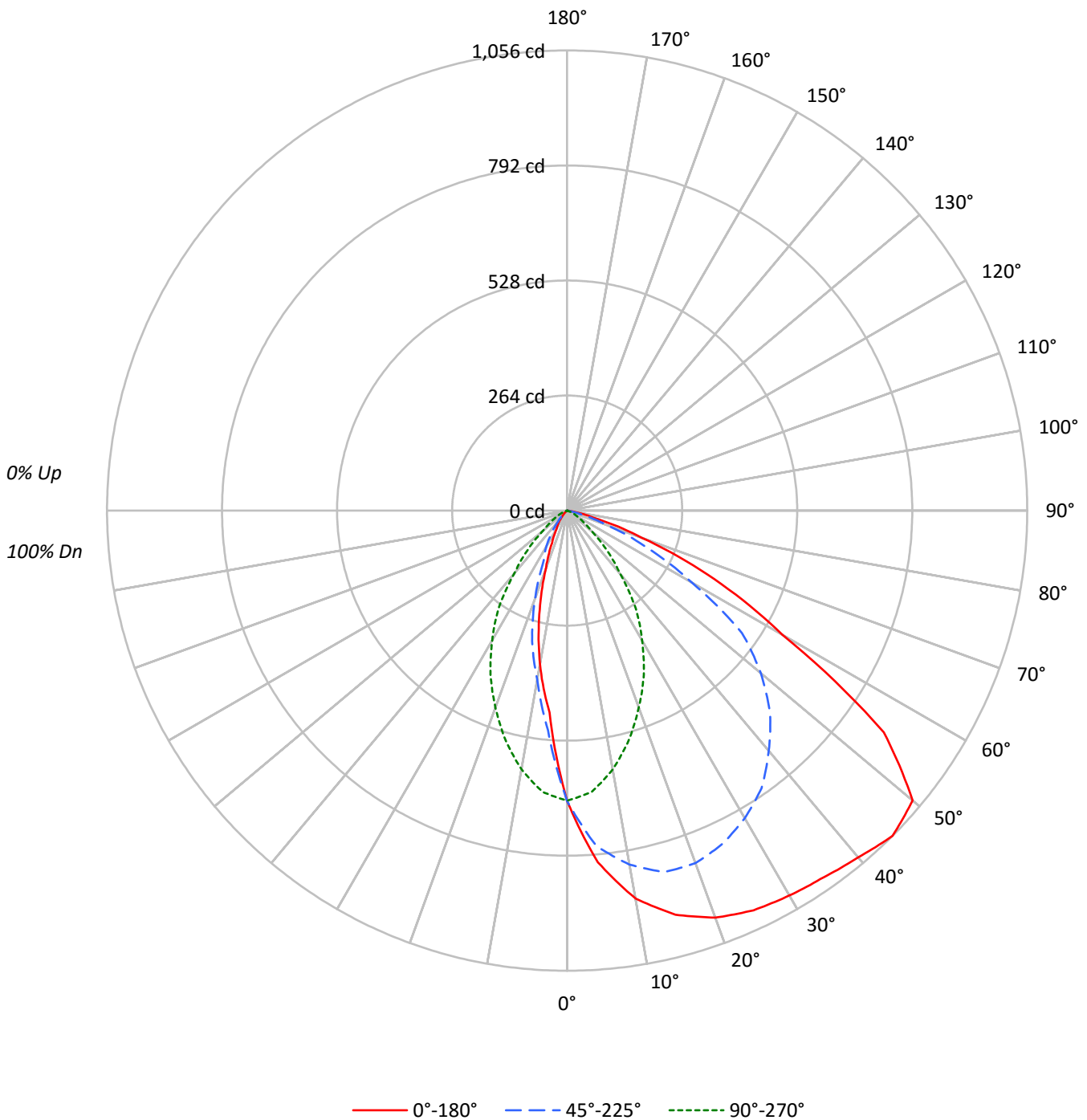
Lumens per Lamp: 3150 (1 lamp)
Luminaire Lumens: 1296.1 lumens
Efficiency: 41.1%
Efficacy: 33.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 0.88 / 1.2
Luminous Opening: Rectangular (W 1.94' x L: 0.88' x H: 0')
CIE Type: Direct

Input Watts (W): 39
Input Voltage (V): NR
Input Current (A_{in}): 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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	49	49	49	49	48	48	48	48	46	46	46	44	44	44	42	42	42	42	42	42	42	42	42	42	42	42	41																			
1	46	44	43	41	45	43	42	41	41	40	39	40	39	38	38	38	37	38	38	37	38	38	37	38	38	37	36																			
2	42	39	37	35	41	38	36	34	37	35	34	36	34	33	35	33	32	35	33	32	35	33	32	35	33	32	31																			
3	39	35	32	30	38	34	32	29	33	31	29	32	30	28	31	29	28	31	29	28	31	29	28	31	29	28	27																			
4	36	31	28	26	35	31	28	25	30	27	25	29	27	25	28	26	24	28	26	24	28	26	24	28	26	24	24																			
5	33	28	25	22	32	28	25	22	27	24	22	26	24	22	25	23	22	25	23	22	25	23	22	25	23	22	21																			
6	31	26	22	20	30	25	22	20	24	22	20	24	21	19	23	21	19	23	21	19	23	21	19	23	21	19	18																			
7	28	23	20	18	28	23	20	18	22	20	17	22	19	17	21	19	17	21	19	17	21	19	17	21	19	17	16																			
8	27	21	18	16	26	21	18	16	21	18	16	20	18	16	20	17	16	20	17	16	20	17	16	20	17	16	15																			
9	25	20	17	14	24	19	16	14	19	16	14	19	16	14	18	16	14	18	16	14	18	16	14	18	16	14	13																			
10	23	18	15	13	23	18	15	13	18	15	13	17	15	13	17	15	13	17	15	13	17	15	13	17	15	13	12																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4180	4180	4180
5°	5103	4082	2929
10°	5761	3843	2288
15°	6237	3547	1598
20°	6639	3212	962
25°	7008	2881	568
30°	7392	2493	355
35°	7868	2107	253
40°	8512	1548	156
45°	9372	1145	89
50°	10105	722	10
55°	9705	481	0
60°	7167	339	0
65°	5539	193	0
70°	3340	55	0
75°	1528	0	0
80°	542	0	0
85°	72	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	60.6	4.7	1.9
10°-20°	162.3	12.5	5.2
20°-30°	225.4	17.4	7.2
30°-40°	256.8	19.8	8.2
40°-50°	256.8	19.8	8.2
50°-60°	208.5	16.1	6.6
60°-70°	102.6	7.9	3.3
70°-80°	22.2	1.7	0.7
80°-90°	1.0	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°	448.2	34.6	14.2
0°-40°	705.0	54.4	22.4
0°-60°	1170.3	90.3	37.2
0°-90°	1296.1	100.0	41.1
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°	1296.1	100.0	41.1

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	666	666	666	666	666	
5°	810	773	648	506	465	79
15°	960	859	546	310	246	272
25°	1012	844	416	127	82	468
35°	1027	778	275	60	33	646
45°	1056	659	129	16	10	810
55°	887	490	44	1	0	755
65°	373	205	13	0	0	370
75°	63	30	0	0	0	85
85°	1	0	0	0	0	5
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°	666	666	666	666	666	666	666	666	666
5°	810	806	773	716	648	567	506	487	465
10°	904	889	825	735	603	466	394	367	359
15°	960	934	859	730	546	387	310	261	246
20°	994	957	861	708	481	315	215	150	144
25°	1012	956	844	678	416	248	127	84	82
30°	1020	948	815	628	344	167	96	55	49
35°	1027	931	778	577	275	97	60	40	33
40°	1039	911	720	505	189	49	32	22	19
45°	1056	894	659	403	129	28	16	13	10
50°	1035	857	580	273	74	21	7	2	1
55°	887	746	490	161	44	13	1	0	0
60°	571	596	331	94	27	3	0	0	0
65°	373	344	205	55	13	0	0	0	0
70°	182	160	98	31	3	0	0	0	0
75°	63	60	30	11	0	0	0	0	0
80°	15	14	7	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)