Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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. 10374.0

Luminaire Tested: **144/1BX**

Issue Date: 3/3/2020

Report Generated By E9808136 / USAU2WHP6039969

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-41-14
Report Number:	BALLABS TEST NO. 10374.0
Test Lab:	
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	NEO-RAY
Catalog Number:	144/1BX
Description:	2/40W BIAX LAMP 1x4'RECESSED INDIRECT LUMINAIRE
Light Source:	- FT40W/2G11/RS/35
Ballast/Driver:	-

Summary

Lumens per Lamp:	3150 (2 lamps)
Luminaire Lumens:	2820.3 lumens
Efficiency:	44.8%
Efficacy:	43.4 lumens/watt
Spacing Criteria (0/90/45):	1.22 / 1.27 / 1.34
Luminous Opening:	Rectangular (W 1' x L: 4' x H: 0')
CIE Type:	Direct

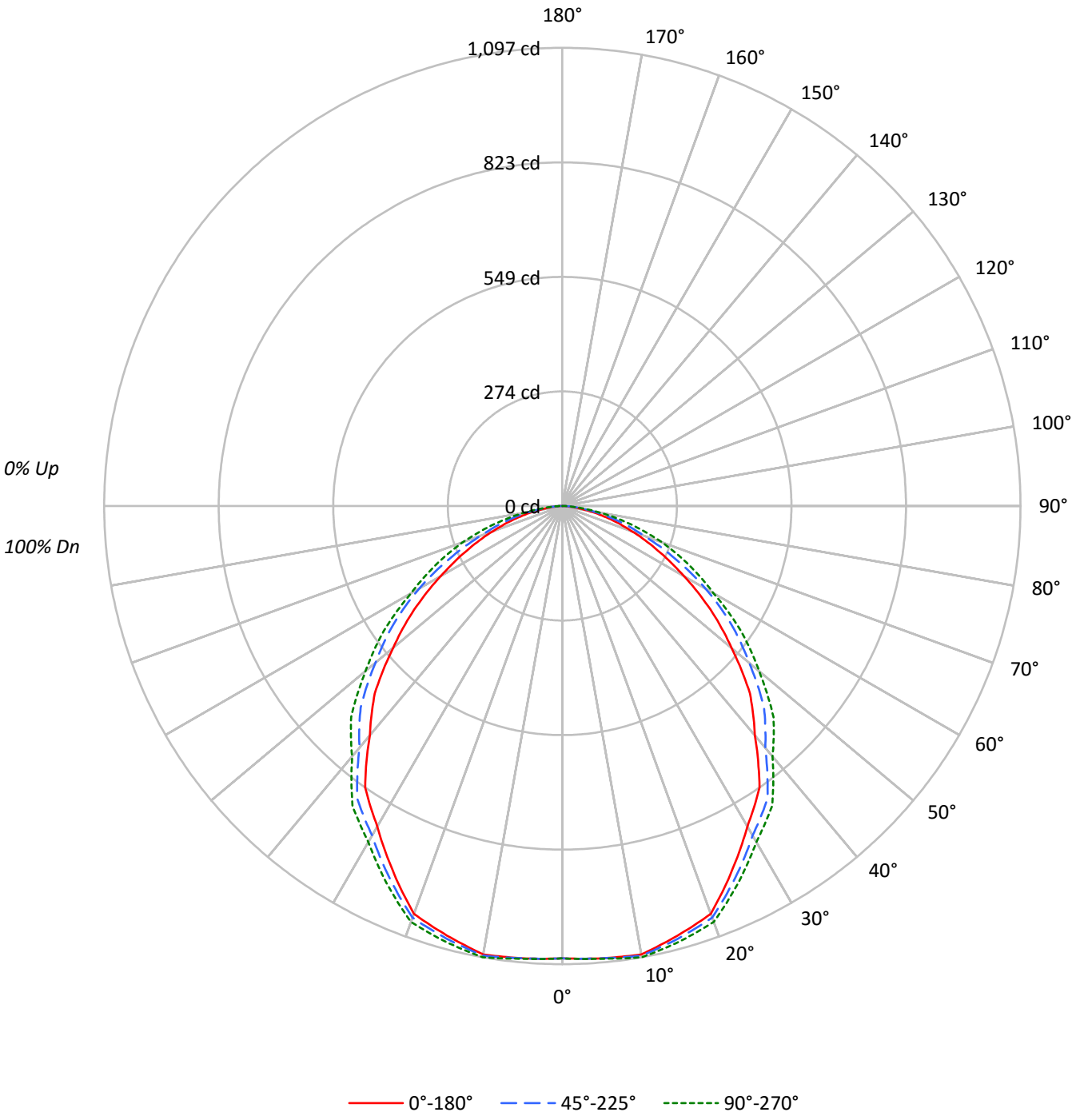
Input Watts (W):	65
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: BALLABS TEST NO. 10374.0
CATALOG NUMBER: 144/1BX

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: BALLABS TEST NO. 10374.0
CATALOG NUMBER: 144/1BX

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	53	53	53	53	52	52	52	52	50	50	50	48	48	48	46	46	46	45
1	49	47	45	44	48	46	44	43	44	43	42	42	41	40	41	40	39	38
2	45	41	38	36	44	40	38	36	39	37	35	37	36	34	36	35	33	32
3	41	37	33	30	40	36	33	30	34	32	29	33	31	29	32	30	28	27
4	38	32	29	26	37	32	28	26	31	28	25	30	27	25	29	27	25	24
5	35	29	25	22	34	29	25	22	28	24	22	27	24	22	26	24	22	21
6	32	26	22	20	31	26	22	20	25	22	19	24	21	19	24	21	19	18
7	30	24	20	17	29	24	20	17	23	20	17	22	19	17	22	19	17	16
8	28	22	18	16	27	22	18	16	21	18	15	20	17	15	20	17	15	14
9	26	20	17	14	25	20	16	14	19	16	14	19	16	14	18	16	14	13
10	24	19	15	13	24	18	15	13	18	15	13	17	15	13	17	14	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2914	2914	2914
5°	2936	2936	2939
10°	2978	2987	2998
15°	2967	2986	3009
20°	2975	3004	3036
25°	2856	2913	2957
30°	2753	2831	2887
35°	2704	2812	2878
40°	2519	2656	2751
45°	2417	2599	2721
50°	2215	2445	2575
55°	2031	2318	2449
60°	1808	2131	2250
65°	1605	1891	2133
70°	1393	1629	1991
75°	1185	1445	1757
80°	899	1178	1410
85°	556	865	895

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: BALLABS TEST NO. 10374.0
CATALOG NUMBER: 144/1BX

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	104.0	3.7	1.7
10°-20°	303.3	10.8	4.8
20°-30°	452.0	16.0	7.2
30°-40°	527.3	18.7	8.4
40°-50°	520.1	18.4	8.3
50°-60°	434.4	15.4	6.9
60°-70°	296.1	10.5	4.7
70°-80°	149.0	5.3	2.4
80°-90°	34.1	1.2	0.5
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°	859.3	30.5	13.6
0°-40°	1386.6	49.2	22.0
0°-60°	2341.1	83.0	37.2
0°-90°	2820.3	100.0	44.8
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°	2820.3	100.0	44.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1083	1083	1083	1083	1083	
5°	1087	1088	1087	1088	1088	104
15°	1065	1067	1072	1078	1080	301
25°	962	967	981	994	996	444
35°	823	834	856	869	876	509
45°	635	657	683	708	715	486
55°	433	463	494	516	522	387
65°	252	277	297	323	335	252
75°	114	114	139	162	169	122
85°	18	23	28	29	29	26
90°	0	0	0	0	0	

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: BALLABS TEST NO. 10374.0
CATALOG NUMBER: 144/1BX

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1083	1083	1083	1083	*1083*
5°	1087	1088	1087	1088	*1088*
10°	*1090*	*1092*	*1093*	*1095*	*1097*
15°	1065	1067	1072	1078	*1080*
20°	1039	1040	1049	1059	*1060*
25°	962	967	981	994	*996*
30°	886	894	911	926	*929*
35°	823	834	856	869	*876*
40°	717	732	756	775	*783*
45°	635	657	683	708	*715*
50°	529	554	584	607	*615*
55°	433	463	494	516	*522*
60°	336	368	396	411	*418*
65°	252	277	297	323	*335*
70°	177	190	207	242	*253*
75°	114	114	139	162	*169*
80°	58	56	76	87	*91*
85°	18	23	28	29	*29*
90°	0	0	0	0	*0*

(END OF REPORT)