

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. 10667.0

Luminaire Tested: **7VC/1241/40BX/S/120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 10667.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 7VC/1241/40BX/S/120
Description: 2/40W BIAx 4'DIRECT ASYMM RECESSED LUMINAIRE w/GRAY BODY
Light Source: -
FT40W/2G11/RS/35
Ballast/Driver: MAGNETEK BALLAST #C240I120RH

Summary

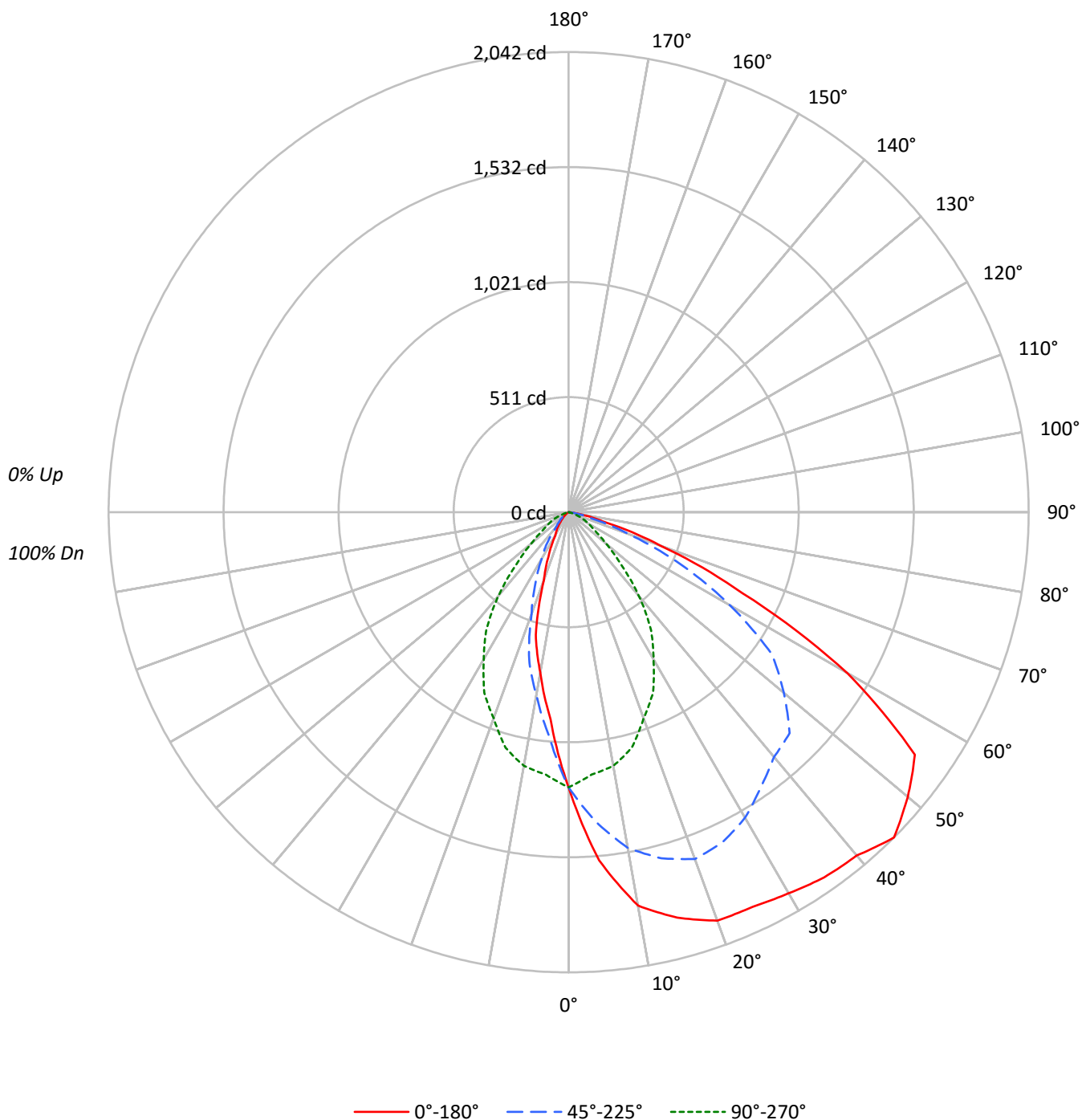
Lumens per Lamp: 3150 (2 lamps)
Luminaire Lumens: 2731.1 lumens
Efficiency: 43.4%
Efficacy: 43.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 0.99 / 1.28
Luminous Opening: Rectangular (W 3.94' x L: 0.88' x H: 0')
CIE Type: Direct

Input Watts (W): 63
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	52	52	52	52	50	50	50	50	48	48	48	46	46	46	44	44	44
1	48	46	45	43	47	45	44	42	43	42	41	42	41	40	40	39	39
2	44	41	38	36	43	40	38	36	39	37	35	37	36	34	36	35	33
3	40	36	33	31	39	36	33	30	34	32	30	33	31	29	32	30	29
4	37	32	29	26	36	32	29	26	31	28	26	30	27	25	29	27	25
5	34	29	25	23	33	29	25	23	28	25	22	27	24	22	26	24	22
6	32	26	23	20	31	26	22	20	25	22	20	24	22	20	24	21	19
7	29	24	20	18	29	24	20	18	23	20	18	22	19	17	22	19	17
8	27	22	18	16	27	22	18	16	21	18	16	20	18	16	20	17	16
9	26	20	17	14	25	20	17	14	19	16	14	19	16	14	18	16	14
10	24	19	15	13	24	18	15	13	18	15	13	18	15	13	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3771	3771	3771
5°	4809	3624	2858
10°	5560	3585	2267
15°	5957	3460	1800
20°	6340	3198	1058
25°	6584	3016	699
30°	6965	2685	421
35°	7458	2402	332
40°	8019	1959	226
45°	8919	1433	162
50°	9442	1038	101
55°	10102	743	65
60°	8827	624	0
65°	6226	497	0
70°	3901	289	0
75°	1838	107	0
80°	854	0	0
85°	213	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	113.7	4.2	1.8
10°-20°	317.7	11.6	5.0
20°-30°	451.0	16.5	7.2
30°-40°	516.1	18.9	8.2
40°-50°	538.4	19.7	8.5
50°-60°	468.3	17.1	7.4
60°-70°	254.3	9.3	4.0
70°-80°	66.5	2.4	1.1
80°-90°	5.0	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°	882.4	32.3	14.0
0°-40°	1398.6	51.2	22.2
0°-60°	2405.3	88.1	38.2
0°-90°	2731.1	100.0	43.4
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°	2731.1	100.0	43.4

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1221	1221	1221	1221	1221	
5°	1551	1378	1169	997	922	152
15°	1863	1590	1082	678	563	528
25°	1932	1616	885	348	205	897
35°	1978	1488	637	164	88	1241
45°	2042	1387	328	59	37	1556
55°	1876	1103	138	21	12	1599
65°	852	550	68	0	0	880
75°	154	105	9	0	0	207
85°	6	0	0	0	0	16
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°	1221	1221	1221	1221	1221	1221	1221	1221	1221
5°	1551	1462	1378	1271	1169	1087	997	942	922
10°	1773	1653	1513	1353	1143	953	824	749	723
15°	1863	1737	1590	1361	1082	826	678	591	563
20°	1929	1840	1638	1353	973	664	482	356	322
25°	1932	1814	1616	1325	885	569	348	224	205
30°	1953	1784	1566	1257	753	404	241	130	118
35°	1978	1725	1488	1169	637	269	164	107	88
40°	1989	1703	1418	1064	486	155	87	74	56
45°	2042	1765	1387	931	328	98	59	48	37
50°	1965	1664	1246	717	216	71	40	26	21
55°	1876	1566	1103	458	138	52	21	12	12
60°	1429	1243	827	266	101	32	14	0	0
65°	852	773	550	174	68	12	0	0	0
70°	432	398	278	115	32	0	0	0	0
75°	154	158	105	71	9	0	0	0	0
80°	48	56	34	28	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)