

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. 11551.0

Luminaire Tested: **74ICS/1T5HO**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 11551.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 74ICS/1T5HO
Description: 1/54W T5HO LAMP 4'INDIRECT COVE MNT LUMINAIRE
Light Source: -
FP54T5HO/835
Ballast/Driver: ENERGY SAVINGS BLST #ES-1-T5-54-UNV-F

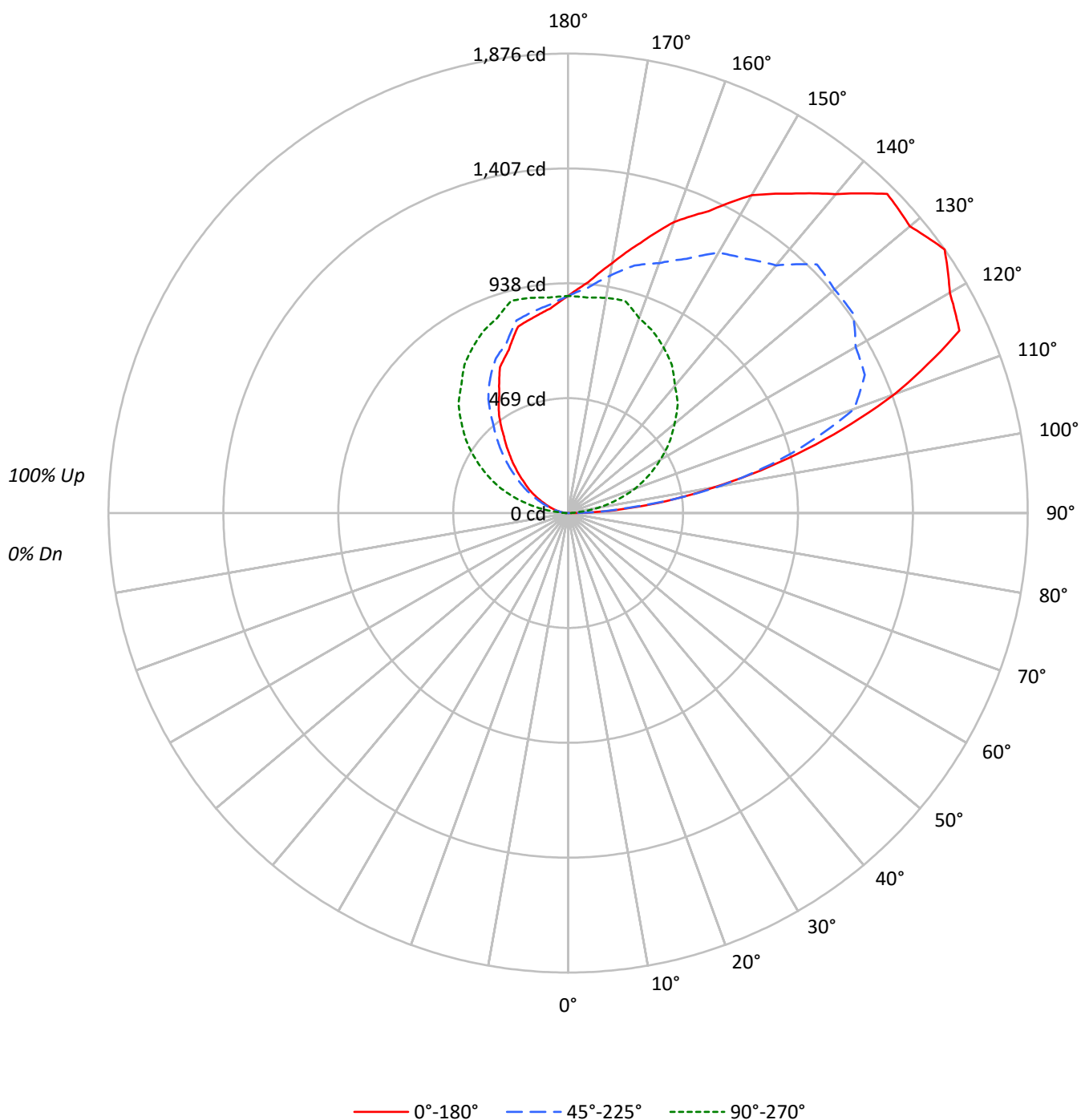
Summary

Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 4031.9 lumens
Efficiency: 80.6%
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 3.52' x L: 0.31' x H: 0')
CIE Type: Indirect

Input Watts (W): 57
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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	77	77	77	77	66	66	66	66	45	45	45		26	26	26		8
1	70	67	64	61	60	57	55	53	39	38	36		22	22	21		7
2	64	58	54	50	54	50	46	43	34	32	30		20	19	18		6
3	58	51	46	41	49	44	39	36	30	27	25		17	16	15		6
4	53	45	39	35	45	38	34	30	26	24	21		15	14	13		5
5	48	40	34	29	41	34	29	26	23	20	18		14	12	11		4
6	44	35	29	25	38	30	25	22	21	18	15		12	10	9		4
7	41	32	26	22	35	27	22	19	19	16	13		11	9	8		4
8	38	28	23	19	32	24	20	16	17	14	12		10	8	7		3
9	35	26	20	16	30	22	18	14	15	12	10		9	7	6		3
10	32	23	18	14	27	20	16	13	14	11	9		8	7	5		3

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.0	0.0	0.0
10°-20°	0.0	0.0	0.0
20°-30°	0.0	0.0	0.0
30°-40°	0.0	0.0	0.0
40°-50°	0.0	0.0	0.0
50°-60°	0.0	0.0	0.0
60°-70°	0.0	0.0	0.0
70°-80°	0.0	0.0	0.0
80°-90°	0.0	0.0	0.0
90°-100°	145.8	3.6	2.9
100°-110°	467.3	11.6	9.3
110°-120°	683.6	17.0	13.7
120°-130°	721.0	17.9	14.4
130°-140°	678.7	16.8	13.6
140°-150°	565.2	14.0	11.3
150°-160°	423.8	10.5	8.5
160°-170°	261.0	6.5	5.2
170°-180°	85.5	2.1	1.7
0°-30°	0.0	0.0	0.0
0°-40°	0.0	0.0	0.0
0°-60°	0.0	0.0	0.0
0°-90°	0.0	0.0	0.0
90°-120°	1296.7	32.2	25.9
90°-150°	3261.6	80.9	65.2
90°-180°	4032.0	100.0	80.6
0°-180°	4031.9	100.0	80.6

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	38
95°	274	245	42	18	18	303
105°	1007	946	207	66	61	1065
115°	1762	1336	363	151	127	1671
125°	1876	1420	505	263	219	1653
135°	1842	1436	633	402	338	1396
145°	1592	1267	738	568	492	1004
155°	1360	1145	819	697	657	637
165°	1142	1046	897	814	788	327
175°	946	923	883	854	838	93
180°	886	886	886	886	886	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	0	0	0	0	0	0	0	0	0
5°	0	0	0	0	0	0	0	0	0
10°	0	0	0	0	0	0	0	0	0
15°	0	0	0	0	0	0	0	0	0
20°	0	0	0	0	0	0	0	0	0
25°	0	0	0	0	0	0	0	0	0
30°	0	0	0	0	0	0	0	0	0
35°	0	0	0	0	0	0	0	0	0
40°	0	0	0	0	0	0	0	0	0
45°	0	0	0	0	0	0	0	0	0
50°	0	0	0	0	0	0	0	0	0
55°	0	0	0	0	0	0	0	0	0
60°	0	0	0	0	0	0	0	0	0
65°	0	0	0	0	0	0	0	0	0
70°	0	0	0	0	0	0	0	0	0
75°	0	0	0	0	0	0	0	0	0
80°	0	0	0	0	0	0	0	0	0
85°	0	0	0	0	0	0	0	0	0
90°	0	0	0	0	0	0	0	0	0
95°	274	255	245	250	42	18	18	15	18
100°	604	613	626	505	123	45	39	36	36
105°	1007	990	946	649	207	85	66	61	61
110°	1417	1405	1241	757	289	138	104	93	90
115°	1762	1661	1336	843	363	202	151	132	127
120°	1799	1699	1355	882	434	276	206	180	175
125°	1876	1762	1420	918	505	350	263	229	219
130°	1821	1722	1420	930	567	428	330	286	276
135°	1842	1746	1436	966	633	507	402	353	338
140°	1699	1609	1320	940	678	564	476	420	407
145°	1592	1510	1267	946	738	635	568	510	492
150°	1498	1429	1227	950	780	681	636	580	562
155°	1360	1308	1145	949	819	737	697	673	657
160°	1264	1216	1086	949	847	776	737	715	708
165°	1142	1116	1046	965	897	846	814	793	788
170°	1036	1020	984	937	892	857	834	817	811
175°	946	937	923	905	883	872	854	844	838
180°	886	886	886	886	886	886	886	886	886

(END OF REPORT)