

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. 11805.0

Luminaire Tested: **174/1T5HO**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 11805.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 174/1T5HO
Description: 1/54W T5HO 1x4'RECESSED INDIRECT GRID MNT LUMINAIRE
Light Source: -
FP54T5HO/835
Ballast/Driver: UNIVERSAL BALLAST #B254PUNV-D

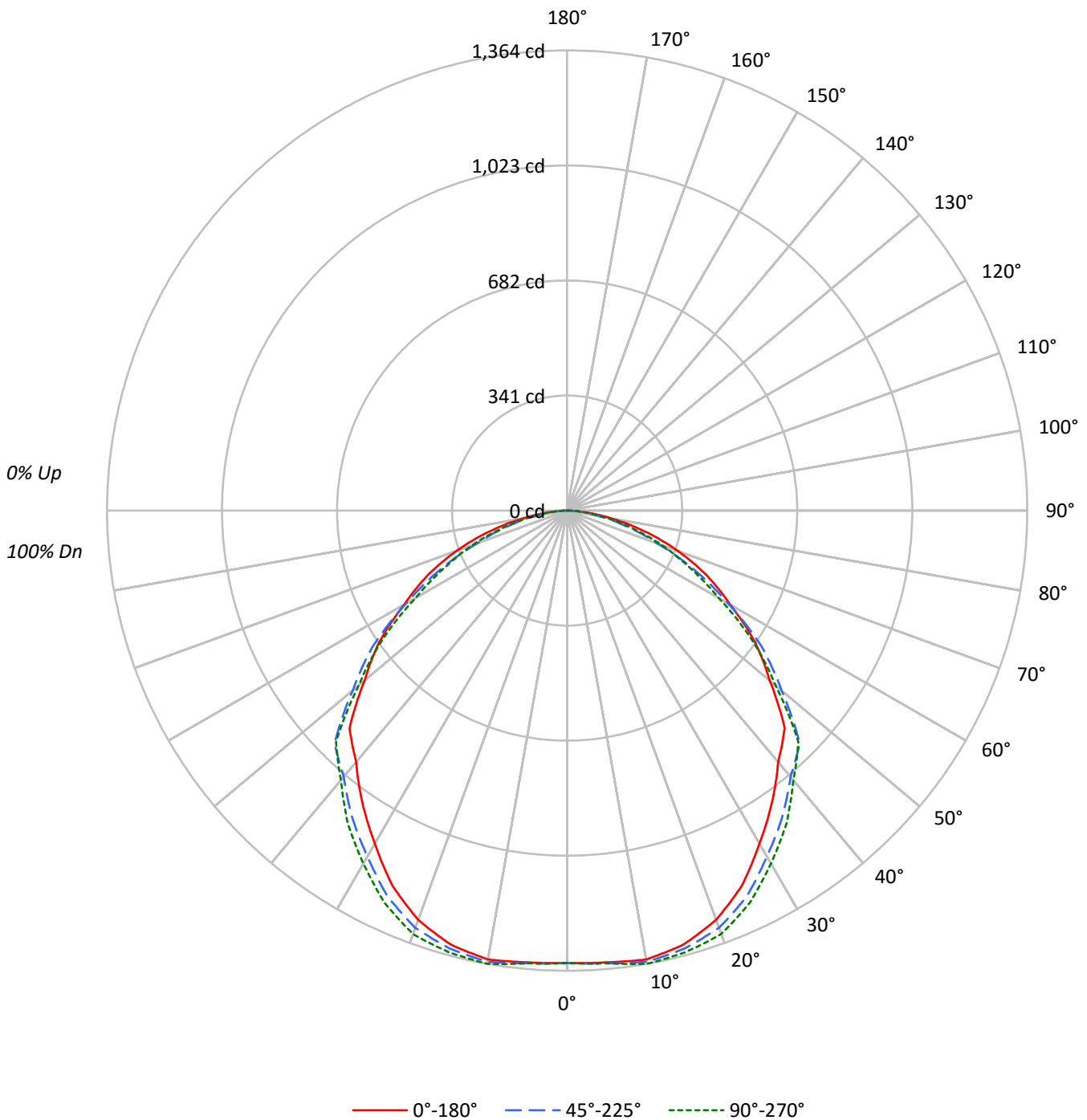
Summary

Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 3798.0 lumens
Efficiency: 76.0%
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.32 / 1.43
Luminous Opening: Rectangular (W 0.9' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 62
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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	90	90	90	90	88	88	88	88	84	84	84	81	81	81	78	78	78	76
1	83	80	76	74	81	78	75	72	75	72	70	72	70	68	69	67	66	64
2	76	70	65	60	74	68	64	60	66	62	58	63	60	57	61	58	56	54
3	69	61	55	50	67	60	55	50	58	53	49	56	52	48	54	50	47	46
4	63	54	48	43	62	53	47	43	52	46	42	50	45	41	48	44	41	39
5	58	49	42	37	57	48	42	37	46	41	36	45	40	36	43	39	36	34
6	54	44	37	32	52	43	37	32	42	36	32	41	35	32	39	35	31	30
7	50	40	33	29	49	39	33	28	38	32	28	37	32	28	36	31	28	26
8	46	36	30	26	45	36	30	25	35	29	25	34	29	25	33	28	25	24
9	43	33	27	23	42	33	27	23	32	27	23	31	26	23	30	26	23	21
10	41	31	25	21	40	30	25	21	30	24	21	29	24	21	28	24	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4113	4113	4113
5°	4138	4147	4147
10°	4207	4229	4248
15°	4229	4267	4302
20°	4214	4295	4360
25°	4149	4267	4338
30°	4037	4193	4278
35°	3961	4160	4242
40°	3896	4124	4176
45°	3956	4229	4203
50°	3741	3960	3850
55°	3636	3764	3583
60°	3423	3386	3184
65°	3324	3019	2910
70°	3121	2547	2672
75°	2820	2180	2311
80°	2314	1766	1907
85°	1513	1302	1513



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	128.8	3.4	2.6
10°-20°	379.3	10.0	7.6
20°-30°	577.8	15.2	11.6
30°-40°	690.1	18.2	13.8
40°-50°	724.3	19.1	14.5
50°-60°	613.2	16.1	12.3
60°-70°	422.8	11.1	8.5
70°-80°	212.4	5.6	4.2
80°-90°	49.3	1.3	1.0
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°	1085.9	28.6	21.7
0°-40°	1776.0	46.8	35.5
0°-60°	3113.5	82.0	62.3
0°-90°	3798.0	100.0	76.0
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°	3798.0	100.0	76.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1341	1341	1341	1341	1341	
5°	1344	1344	1347	1347	1347	129
15°	1332	1334	1344	1352	1355	375
25°	1226	1234	1261	1276	1282	563
35°	1058	1079	1111	1126	1133	663
45°	912	944	975	973	969	692
55°	680	705	704	677	670	604
65°	458	461	416	400	401	451
75°	238	195	184	193	195	252
85°	43	33	37	41	43	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341	1341	1341	1341	1341
5°	1344	1344	1347	1347	1347
10°	1351	1354	1358	1362	1364
15°	1332	1334	1344	1352	1355
20°	1291	1298	1316	1332	1336
25°	1226	1234	1261	1276	1282
30°	1140	1154	1184	1201	1208
35°	1058	1079	1111	1126	1133
40°	973	1000	1030	1043	1043
45°	912	944	975	973	969
50°	784	812	830	816	807
55°	680	705	704	677	670
60°	558	577	552	525	519
65°	458	461	416	400	401
70°	348	327	284	295	298
75°	238	195	184	193	195
80°	131	91	100	106	108
85°	43	33	37	41	43
90°	0	0	0	0	0

(END OF REPORT)