

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 ESTIMATED TEST NO. 14685.2

Luminaire Tested: **1B-1T5HO-3-UEB-S42**

Issue Date: 3/3/2020

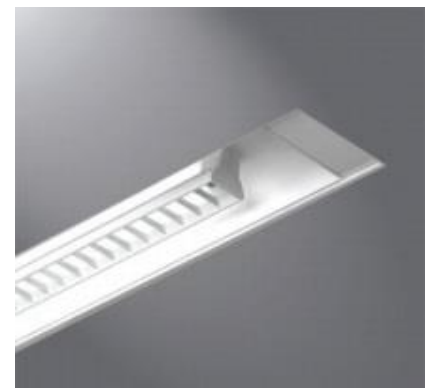
Test Information

Test Method: LM-41-14
Report Number: BALLABS ESTIMATED TEST NO. 14685.2
Test Lab: BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 1B-1T5HO-3-UEB-S42
Description: 1/24W T5HO 36x5.5x4" RECESSED LUMINAIRE w/30" OPEN WHITE REFL
22.5" ACRYLIC RAIL BAFFLE w/INTERNAL SEMISPEC SIDES & 1" OC
2" WHITE BLADES ***ESTIMATED FROM #14685.0***
Light Source: -
FP24T5HO/835
Ballast/Driver: -

Summary

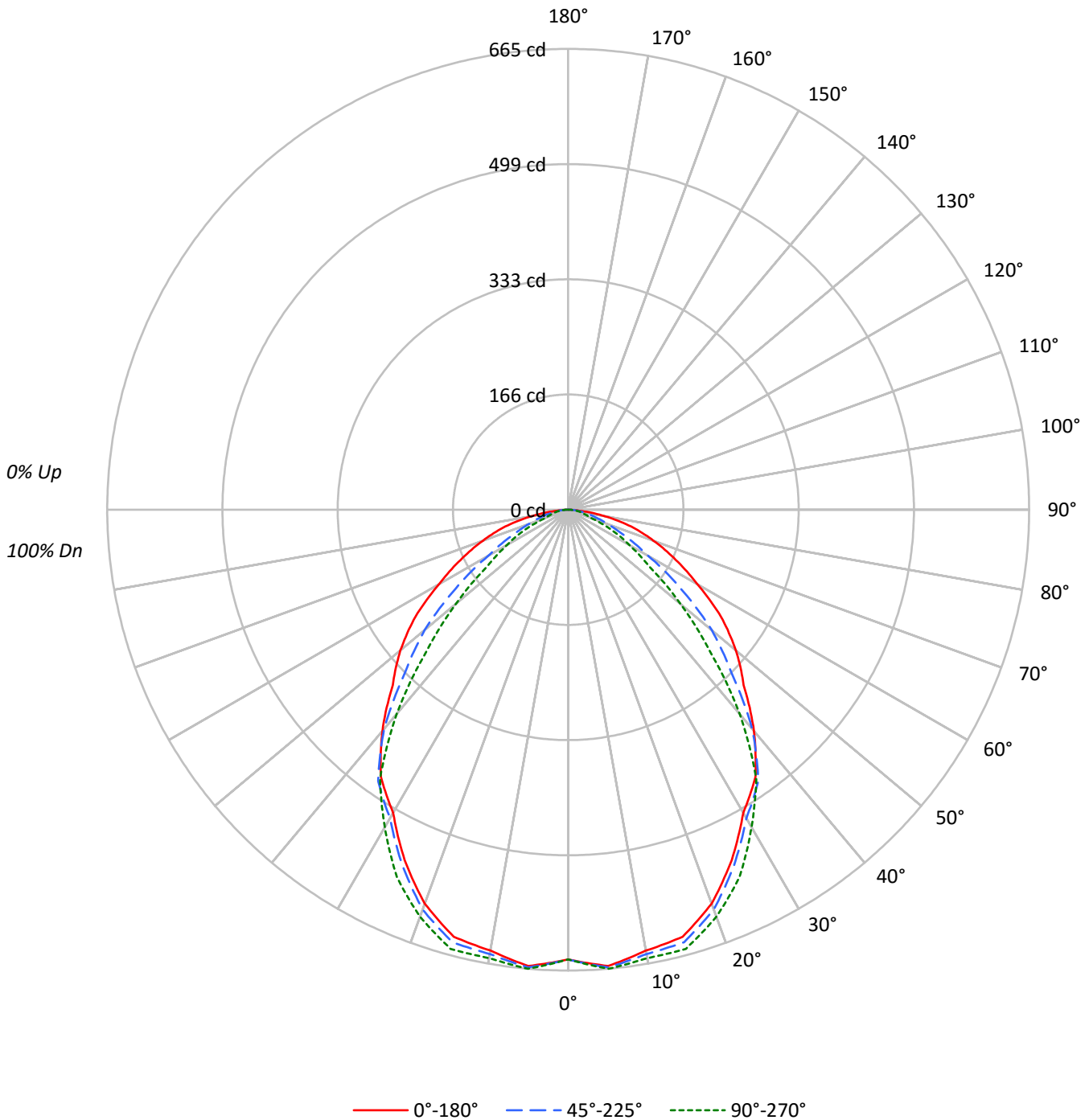
Lumens per Lamp: 2000 (1 lamp)
Luminaire Lumens: 1403.7 lumens
Efficiency: 70.2%
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 2.5' x H: 0')
CIE Type: Direct

Input Watts (W): 25
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	0	
RCR																						
0	84	84	84	84	82	82	82	82	78	78	78	75	75	75	72	72	72	70				70
1	78	75	72	70	76	73	71	69	70	68	67	67	66	64	65	64	63	61				61
2	71	66	62	59	70	65	61	58	63	60	57	60	58	55	58	56	54	53				53
3	66	59	54	50	64	58	54	50	56	52	49	54	51	48	53	50	47	46				46
4	61	53	48	44	59	52	47	43	51	46	43	49	45	42	48	44	42	40				40
5	56	48	42	38	55	47	42	38	46	41	38	45	41	37	43	40	37	36				36
6	52	44	38	34	51	43	38	34	42	37	33	41	37	33	40	36	33	32				32
7	49	40	34	30	48	39	34	30	38	34	30	37	33	30	37	33	30	28				28
8	46	37	31	27	45	36	31	27	35	31	27	35	30	27	34	30	27	26				26
9	43	34	29	25	42	34	28	25	33	28	25	32	28	25	31	27	24	23				23
10	40	31	26	23	39	31	26	23	30	26	23	30	26	22	29	25	22	21				21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6622	6622	6622
5°	6770	6790	6811
10°	6693	6744	6807
15°	6739	6823	6929
20°	6569	6667	6786
25°	6282	6372	6586
30°	5949	6056	6232
35°	5866	5954	5891
40°	5554	5501	5128
45°	5166	4805	4170
50°	5016	4286	3349
55°	4785	3522	2526
60°	4387	2714	2081
65°	4128	2197	1666
70°	3908	1790	1044
75°	3706	1537	946
80°	3114	1293	999
85°	1873	1171	1054



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	62.7	4.5	3.1
10°-20°	180.9	12.9	9.0
20°-30°	261.3	18.6	13.1
30°-40°	292.5	20.8	14.6
40°-50°	256.0	18.2	12.8
50°-60°	183.0	13.0	9.2
60°-70°	105.8	7.5	5.3
70°-80°	48.7	3.5	2.4
80°-90°	12.8	0.9	0.6
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°	505.0	36.0	25.2
0°-40°	797.5	56.8	39.9
0°-60°	1236.5	88.1	61.8
0°-90°	1403.7	100.0	70.2
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°	1403.7	100.0	70.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	649	649	649	649	649	
5°	661	661	663	665	665	62
15°	638	641	646	653	656	179
25°	558	561	566	577	585	257
35°	471	474	478	473	473	292
45°	358	358	333	297	289	280
55°	269	254	198	154	142	239
65°	171	136	91	77	69	170
75°	94	54	39	29	24	98
85°	16	12	10	9	9	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	649	649	649	649	649
5°	661	661	663	665	665
10°	646	647	651	655	657
15°	638	641	646	653	656
20°	605	608	614	621	625
25°	558	561	566	577	585
30°	505	508	514	523	529
35°	471	474	478	473	473
40°	417	418	413	390	385
45°	358	358	333	297	289
50°	316	311	270	223	211
55°	269	254	198	154	142
60°	215	190	133	107	102
65°	171	136	91	77	69
70°	131	86	60	46	35
75°	94	54	39	29	24
80°	53	27	22	17	17
85°	16	12	10	9	9
90°	0	0	0	0	0

(END OF REPORT)