

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. 13013.0

Luminaire Tested: **75DR-1T5HO-4-1EB-S72PP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 13013.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 75DR-1T5HO-4-1EB-S72PP
Description: 1/54W T5HO 48"RECESSED PERIMETER LUMINAIRE w/WHITE REFL
WHITE PERF 40-CELL 1.1875"BAFFLE w/.125"WHITE OVERLAY
UNIVERSAL BALLAST #B254PUNV-D WATTS=59 REFL=87%
Light Source: -
FP54T5HO/835
Ballast/Driver: -

Summary

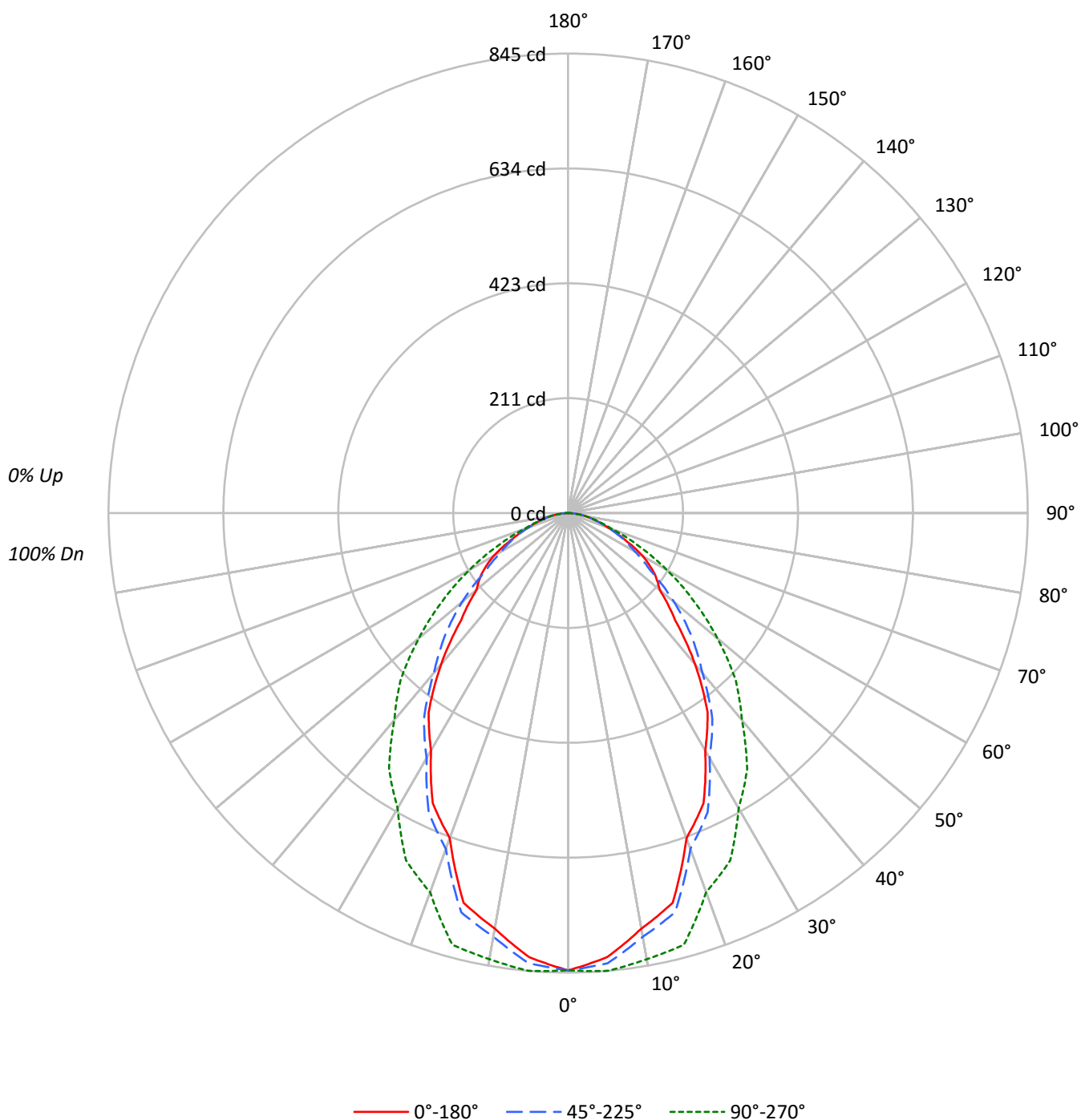
Lumens per Lamp: 5000 (1 lamp)
Luminaire Lumens: 1506.8 lumens
Efficiency: 30.1%
Efficacy: 25.5 lumens/watt
Spacing Criteria (0/90/45): 0.97 / 1.13 / 1.09
Luminous Opening: Rectangular (W 0.26' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 59
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	36	36	36	36	35	35	35	35	33	33	33	32	32	32	31	31	31
1	33	32	31	30	32	31	30	29	30	29	29	29	28	28	28	27	27
2	31	29	27	25	30	28	26	25	27	26	24	26	25	24	25	24	23
3	28	26	23	22	28	25	23	21	24	23	21	23	22	21	23	21	20
4	26	23	21	19	26	23	20	19	22	20	18	21	20	18	21	19	18
5	24	21	18	17	24	21	18	17	20	18	16	19	18	16	19	17	16
6	23	19	17	15	22	19	16	15	18	16	15	18	16	14	17	16	14
7	21	17	15	13	21	17	15	13	17	15	13	16	14	13	16	14	13
8	20	16	14	12	19	16	14	12	15	13	12	15	13	12	15	13	12
9	19	15	13	11	18	15	12	11	14	12	11	14	12	11	14	12	11
10	17	14	12	10	17	14	12	10	13	11	10	13	11	10	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8704	8704	8704
5°	8519	8634	8779
10°	8155	8313	8754
15°	7951	8143	8808
20°	7005	7236	8173
25°	6726	6932	8051
30°	6023	6215	7493
35°	5648	5837	7252
40°	4904	5188	6715
45°	4069	4698	6382
50°	3542	4090	5764
55°	3501	3338	5089
60°	3291	2939	4347
65°	2767	2694	3502
70°	2360	2330	2602
75°	2079	2039	2199
80°	1907	1907	1907
85°	1425	1663	1544

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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	78.3	5.2	1.6
10°-20°	211.7	14.1	4.2
20°-30°	282.8	18.8	5.7
30°-40°	297.7	19.8	6.0
40°-50°	258.4	17.1	5.2
50°-60°	187.7	12.5	3.8
60°-70°	116.7	7.7	2.3
70°-80°	57.4	3.8	1.1
80°-90°	16.0	1.1	0.3
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°	572.8	38.0	11.5
0°-40°	870.5	57.8	17.4
0°-60°	1316.6	87.4	26.3
0°-90°	1506.8	100.0	30.1
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°	1506.8	100.0	30.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	841	841	841	841	841	
5°	820	823	831	841	845	77
15°	742	745	760	792	822	204
25°	589	589	607	651	705	267
35°	447	444	462	512	574	275
45°	278	292	321	374	436	219
55°	194	173	185	233	282	172
65°	113	106	110	123	143	114
75°	52	54	51	54	55	56
85°	12	13	14	14	13	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	841	841	841	841	841
5°	820	823	831	841	845
10°	776	780	791	815	833
15°	742	745	760	792	822
20°	636	641	657	697	742
25°	589	589	607	651	705
30°	504	501	520	568	627
35°	447	444	462	512	574
40°	363	357	384	434	497
45°	278	292	321	374	436
50°	220	224	254	301	358
55°	194	173	185	233	282
60°	159	135	142	174	210
65°	113	106	110	123	143
70°	78	78	77	81	86
75°	52	54	51	54	55
80°	32	32	32	32	32
85°	12	13	14	14	13
90°	0	0	0	0	0

(END OF REPORT)