

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. 13012.0

Luminaire Tested: **75DR-2T5-4-1EB-S72PP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 13012.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 75DR-2T5-4-1EB-S72PP
Description: 2/28W T5 48" RECESSED PERIMETER LUMINAIRE w/WHITE REFLECTOR
WHITE PERF 40-CELL 1.1875" BAFFLE w/.125" WHITE OVERLAY
UNIVERSAL BALLAST #B228PUNV-C WATTS=60 REFL=85%
Light Source: -
FP28T5/835
Ballast/Driver: -

Summary

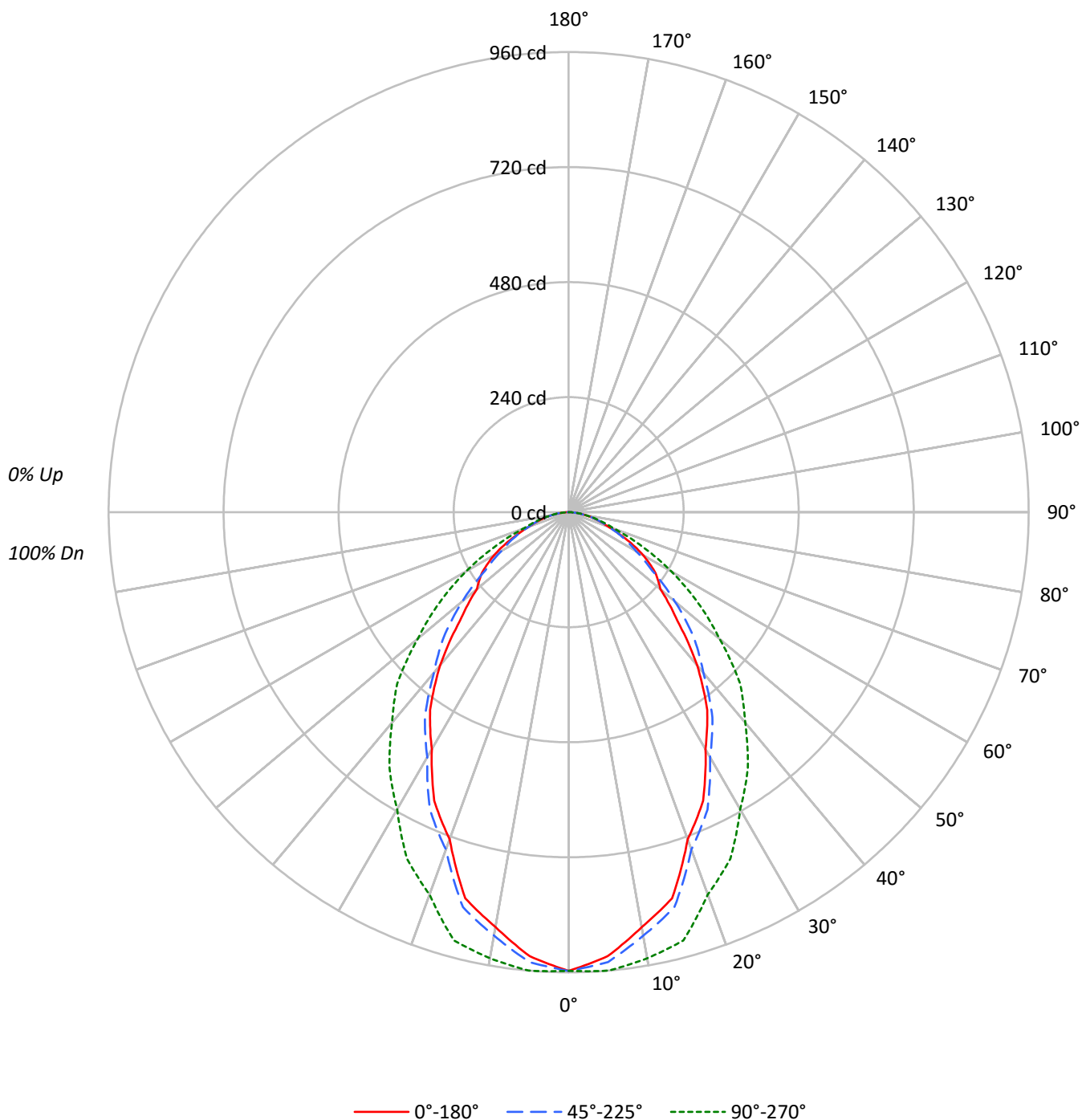
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 1716.7 lumens
Efficiency: 29.6%
Efficacy: 28.6 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 1.13 / 1.09
Luminous Opening: Rectangular (W 0.26' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 60
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



TEST NUMBER: BALLABS TEST NO. 13012.0
CATALOG NUMBER: 75DR-2T5-4-1EB-S72PP

Luminous Intensity Polar Plot



TEST NUMBER: BALLABS TEST NO. 13012.0
CATALOG NUMBER: 75DR-2T5-4-1EB-S72PP

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	35	35	35	35	34	34	34	34	33	33	33	31	31	31	30	30	30
1	33	31	30	29	32	31	30	29	30	29	28	28	28	27	27	27	26
2	30	28	26	25	29	27	26	24	26	25	24	26	24	23	25	24	23
3	28	25	23	21	27	25	23	21	24	22	21	23	22	20	22	21	20
4	26	23	20	18	25	22	20	18	21	20	18	21	19	18	20	19	18
5	24	20	18	16	23	20	18	16	20	18	16	19	17	16	18	17	16
6	22	19	16	14	22	18	16	14	18	16	14	17	16	14	17	15	14
7	21	17	15	13	20	17	15	13	16	14	13	16	14	13	16	14	13
8	19	16	13	12	19	16	13	12	15	13	12	15	13	12	14	13	12
9	18	15	12	11	18	14	12	11	14	12	11	14	12	11	13	12	11
10	17	14	11	10	17	13	11	10	13	11	10	13	11	10	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9905	9905	9905
5°	9662	9787	9974
10°	9238	9427	9932
15°	8936	9140	9911
20°	7996	8250	9351
25°	7583	7823	9113
30°	6824	7051	8557
35°	6368	6608	8238
40°	5634	5904	7742
45°	4698	5401	7406
50°	4025	4653	6618
55°	3988	3843	5937
60°	3726	3353	5113
65°	3208	3061	4139
70°	2633	2663	3056
75°	2399	2439	2599
80°	2086	2026	2146
85°	1781	1900	1900

TEST NUMBER: BALLABS TEST NO. 13012.0
CATALOG NUMBER: 75DR-2T5-4-1EB-S72PP

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	88.8	5.2	1.5
10°-20°	239.3	13.9	4.1
20°-30°	320.6	18.7	5.5
30°-40°	338.0	19.7	5.8
40°-50°	296.0	17.2	5.1
50°-60°	215.3	12.5	3.7
60°-70°	134.7	7.8	2.3
70°-80°	65.9	3.8	1.1
80°-90°	18.1	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°	648.7	37.8	11.2
0°-40°	986.7	57.5	17.0
0°-60°	1498.0	87.3	25.8
0°-90°	1716.7	100.0	29.6
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°	1716.7	100.0	29.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	957	957	957	957	957	
5°	930	932	942	953	960	87
15°	834	838	853	889	925	230
25°	664	664	685	735	798	302
35°	504	501	523	579	652	312
45°	321	335	369	428	506	252
55°	221	196	213	269	329	195
65°	131	123	125	143	169	131
75°	60	62	61	62	65	64
85°	15	15	16	16	16	18
90°	0	0	0	0	0	

TEST NUMBER: BALLABS TEST NO. 13012.0
CATALOG NUMBER: 75DR-2T5-4-1EB-S72PP

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957	957	957	957	957
5°	930	932	942	953	960
10°	879	884	897	924	945
15°	834	838	853	889	925
20°	726	730	749	794	849
25°	664	664	685	735	798
30°	571	570	590	646	716
35°	504	501	523	579	652
40°	417	407	437	496	573
45°	321	335	369	428	506
50°	250	254	289	343	411
55°	221	196	213	269	329
60°	180	155	162	202	247
65°	131	123	125	143	169
70°	87	88	88	94	101
75°	60	62	61	62	65
80°	35	35	34	36	36
85°	15	15	16	16	16
90°	0	0	0	0	0

(END OF REPORT)