

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. 11776.0

Luminaire Tested: **S244R/3T5HO**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 11776.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S244R/3T5HO
Description: 3/54W T5HO 2x4'RECESSED GRID MNT LUMINAIRE w/WHITE REFL
Light Source: -
FP54T5HO/835
Ballast/Driver: 2 UNIVERSAL BALLAST #B254PUNV-D WATTS=154 REFL=94%

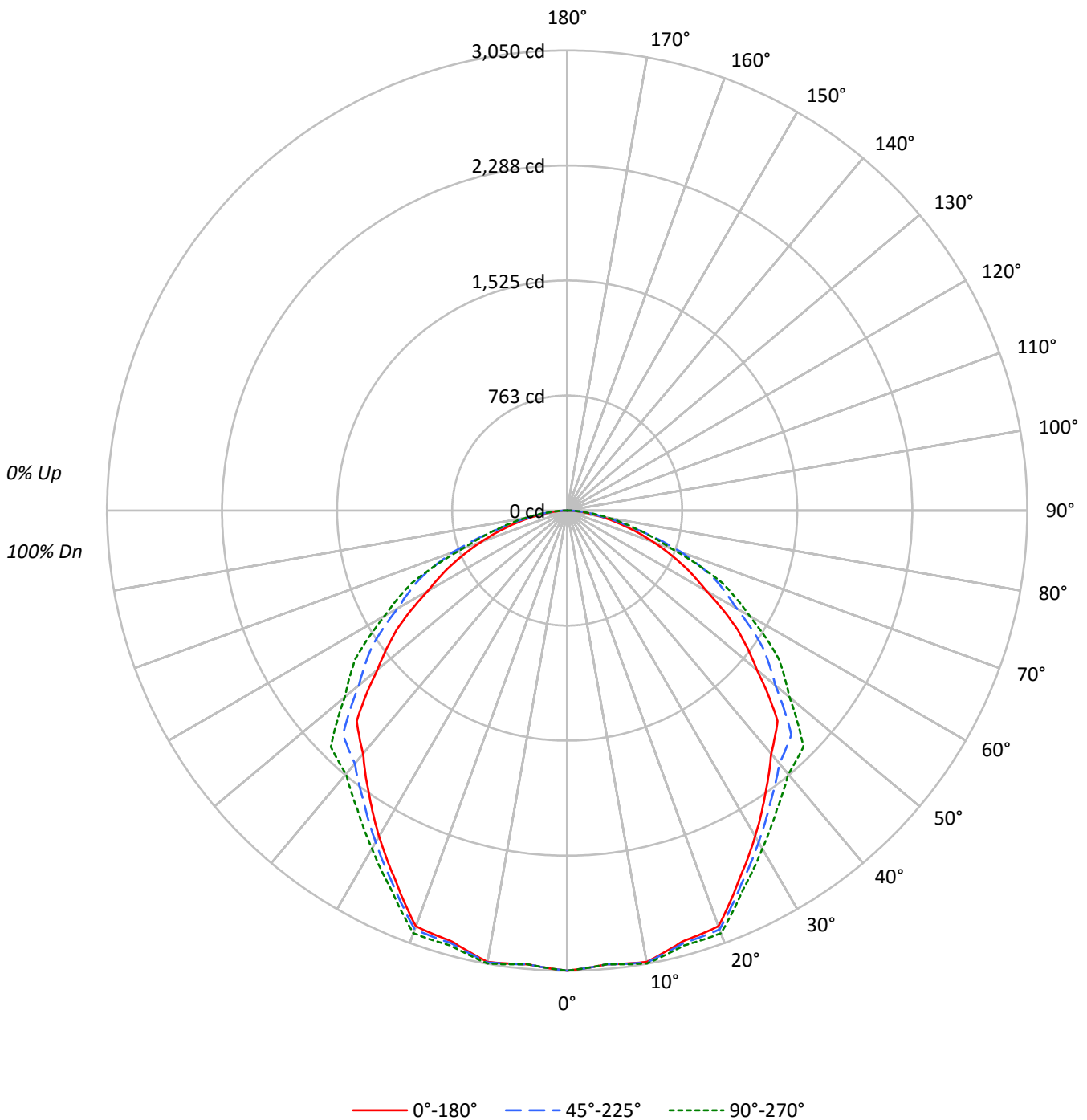
Summary

Lumens per Lamp: 5000 (3 lamps)
Luminaire Lumens: 8471.6 lumens
Efficiency: 56.5%
Efficacy: 55.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.4
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 154
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. 11776.0
CATALOG NUMBER: S244R/3T5HO

Luminous Intensity Polar Plot





TEST NUMBER: BALLABS TEST NO. 11776.0
 CATALOG NUMBER: S244R/3T5HO

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	67	67	67	67	66	66	66	66	63	63	63		60	60	60		58	58	58	56
1	62	59	57	55	60	58	56	54	55	54	52		53	52	50		51	50	49	48
2	56	52	48	45	55	50	47	44	48	46	43		47	44	42		45	43	41	40
3	51	45	41	37	50	44	40	37	43	39	36		41	38	36		40	37	35	34
4	47	40	35	32	46	39	35	31	38	34	31		37	33	30		35	33	30	29
5	43	36	31	27	42	35	31	27	34	30	27		33	29	26		32	29	26	25
6	40	32	27	24	39	32	27	24	31	27	23		30	26	23		29	26	23	22
7	37	29	24	21	36	29	24	21	28	24	21		27	23	21		26	23	20	19
8	34	27	22	19	33	26	22	19	26	21	19		25	21	18		24	21	18	17
9	32	25	20	17	31	24	20	17	24	20	17		23	19	17		22	19	17	15
10	30	23	18	15	29	22	18	15	22	18	15		21	18	15		21	17	15	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4372	4372	4372
5°	4344	4344	4344
10°	4422	4426	4437
15°	4387	4406	4430
20°	4473	4506	4547
25°	4267	4321	4375
30°	4127	4201	4284
35°	4007	4116	4238
40°	3937	4096	4267
45°	3998	4259	4490
50°	3662	4016	4289
55°	3451	3959	4281
60°	3059	3716	4005
65°	2839	3677	3853
70°	2536	3366	3076
75°	2182	2581	2664
80°	1800	1998	2278
85°	1398	1595	1743



TEST NUMBER: BALLABS TEST NO. 11776.0
 CATALOG NUMBER: S244R/3T5HO

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	289.3	3.4	1.9
10°-20°	845.0	10.0	5.6
20°-30°	1263.0	14.9	8.4
30°-40°	1478.3	17.5	9.9
40°-50°	1579.0	18.6	10.5
50°-60°	1383.8	16.3	9.2
60°-70°	1007.7	11.9	6.7
70°-80°	504.0	5.9	3.4
80°-90°	121.6	1.4	0.8
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°	2397.3	28.3	16.0
0°-40°	3875.6	45.7	25.8
0°-60°	6838.4	80.7	45.6
0°-90°	8471.6	100.0	56.5
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°	8471.6	100.0	56.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3050	3050	3050	3050	3050	
5°	3019	3017	3019	3019	3019	289
15°	2956	2961	2969	2981	2985	841
25°	2698	2705	2732	2752	2766	1247
35°	2290	2307	2352	2398	2422	1437
45°	1972	2009	2101	2181	2215	1485
55°	1381	1452	1584	1678	1713	1223
65°	837	936	1084	1136	1136	828
75°	394	471	466	467	481	425
85°	85	87	97	104	106	106
90°	0	0	0	0	0	



TEST NUMBER: BALLABS TEST NO. 11776.0
 CATALOG NUMBER: S244R/3T5HO

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3050	3050	3050	3050	3050
5°	3019	3017	3019	3019	3019
10°	3038	3038	3041	3045	3048
15°	2956	2961	2969	2981	2985
20°	2932	2936	2954	2973	2981
25°	2698	2705	2732	2752	2766
30°	2493	2504	2538	2569	2588
35°	2290	2307	2352	2398	2422
40°	2104	2128	2189	2252	2280
45°	1972	2009	2101	2181	2215
50°	1642	1692	1801	1886	1923
55°	1381	1452	1584	1678	1713
60°	1067	1156	1296	1376	1397
65°	837	936	1084	1136	1136
70°	605	698	803	771	734
75°	394	471	466	467	481
80°	218	265	242	266	276
85°	85	87	97	104	106
90°	0	0	0	0	0

(END OF REPORT)