

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. 14493.0

Luminaire Tested: **1BR-1T5-4-UEB-STG-S41 ***ESTIMATED FROM #14306.0*****

Issue Date: 3/3/2020

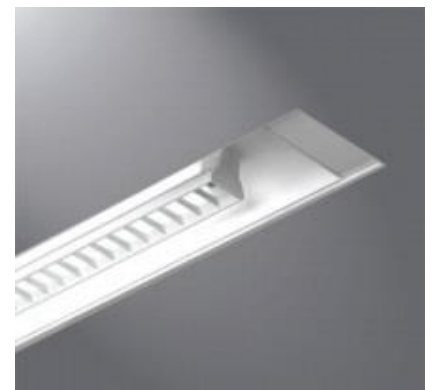
Test Information

Test Method: LM-41-14
Report Number: BALLABS ESTIMATED TEST NO. 14493.0
Test Lab: BUILDING ACOUSTICS & LIGHTING LABORATORIES, INC
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 1BR-1T5-4-UEB-STG-S41 ***ESTIMATED FROM #14306.0***
Description: 1/21W T5 LAMP 4'LINEAR FLUOR RECESSED LUMINAIRE
CTR DIFFUSER w/SEMI-SPEC SIDES & .25"D 1"OC WHITE BLADES
MICROPRISM OVERLAY (PRISM DOWN)
Light Source: -
FP21T5/835
Ballast/Driver: -

Summary

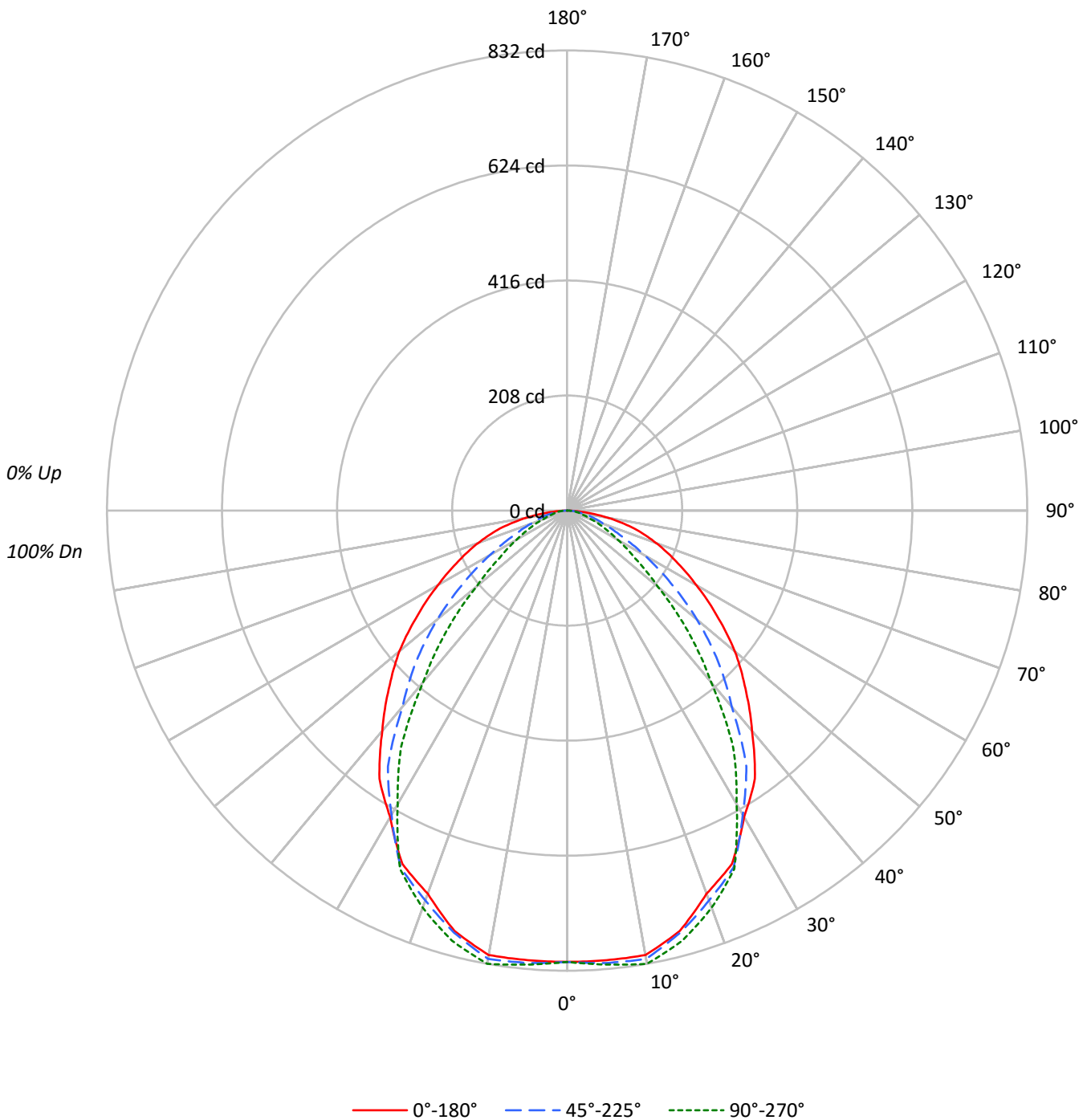
Lumens per Lamp: 2125 (1 lamp)
Luminaire Lumens: 1685.6 lumens
Efficiency: 79.3%
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.14 / 1.19
Luminous Opening: Rectangular (W 0.4' x L: 3.44' x H: 0')
CIE Type: Direct

Input Watts (W): 25
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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	94	94	94	94	92	92	92	92	88	88	88	84	84	84	81	81	81	79																												
1	88	84	81	79	86	83	80	78	79	77	75	76	74	73	73	72	71	69																												
2	81	75	70	66	79	74	69	66	71	67	64	68	65	63	66	64	61	60																												
3	75	67	61	57	73	66	61	56	64	59	55	62	58	55	60	56	54	52																												
4	69	60	54	49	67	59	54	49	57	52	48	56	51	48	54	50	47	46																												
5	64	55	48	43	62	54	48	43	52	47	43	51	46	42	49	45	42	40																												
6	59	50	43	39	58	49	43	38	48	42	38	46	42	38	45	41	38	36																												
7	55	46	39	35	54	45	39	35	44	38	34	43	38	34	42	37	34	32																												
8	52	42	36	31	51	41	35	31	40	35	31	39	34	31	38	34	31	29																												
9	49	39	33	28	48	38	32	28	37	32	28	37	32	28	36	31	28	27																												
10	46	36	30	26	45	35	30	26	35	30	26	34	29	26	33	29	26	24																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6451	6451	6451
5°	6476	6516	6540
10°	6551	6607	6679
15°	6442	6466	6589
20°	6201	6310	6428
25°	6150	6211	6237
30°	5843	5797	5596
35°	5714	5453	5058
40°	5367	4779	4180
45°	5099	4316	3455
50°	4871	3764	2632
55°	4549	3157	2054
60°	4269	2546	1676
65°	4060	1983	1366
70°	3953	1618	1086
75°	3849	1436	916
80°	3415	1184	911
85°	2359	1089	1089



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	78.4	4.7	3.7
10°-20°	223.3	13.2	10.5
20°-30°	322.9	19.2	15.2
30°-40°	346.9	20.6	16.3
40°-50°	297.4	17.6	14.0
50°-60°	211.8	12.6	10.0
60°-70°	127.3	7.6	6.0
70°-80°	61.2	3.6	2.9
80°-90°	16.4	1.0	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°	624.5	37.1	29.4
0°-40°	971.5	57.6	45.7
0°-60°	1480.7	87.8	69.7
0°-90°	1685.6	100.0	79.3
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°	1685.6	100.0	79.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	816	818	821	825	824	78
15°	787	791	790	801	805	221
25°	705	708	712	712	715	321
35°	592	594	565	532	524	367
45°	456	442	386	335	309	353
55°	330	297	229	170	149	297
65°	217	169	106	86	73	217
75°	126	65	47	36	30	131
85°	26	14	12	12	12	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816	816	816	816	816
5°	816	818	821	825	824
10°	816	818	823	829	832
15°	787	791	790	801	805
20°	737	741	750	758	764
25°	705	708	712	712	715
30°	640	643	635	617	613
35°	592	594	565	532	524
40°	520	511	463	422	405
45°	456	442	386	335	309
50°	396	369	306	243	214
55°	330	297	229	170	149
60°	270	231	161	119	106
65°	217	169	106	86	73
70°	171	112	70	57	47
75°	126	65	47	36	30
80°	75	32	26	22	20
85°	26	14	12	12	12
90°	0	0	0	0	0

(END OF REPORT)