

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. 14494.0

Luminaire Tested: **1BR-1T5-3-UEB-STG-S41 ***ESTIMATED FROM #14306.0*****

Issue Date: 3/3/2020

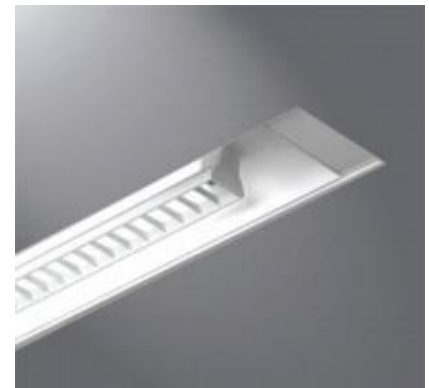
Test Information

Test Method: LM-41-14
Report Number: BALLABS ESTIMATED TEST NO. 14494.0
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-1T5-3-UEB-STG-S41 ***ESTIMATED FROM #14306.0***
Description: 1/14W T5 LAMP 3'LINEAR FLUOR RECESSED LUMINAIRE
CTR DIFFUSER w/SEMI-SPEC SIDES & .25"D 1"OC WHITE BLADES
MICROPRISM OVERLAY (PRISM DOWN)
Light Source: -
FP14T5/835
Ballast/Driver: -

Summary

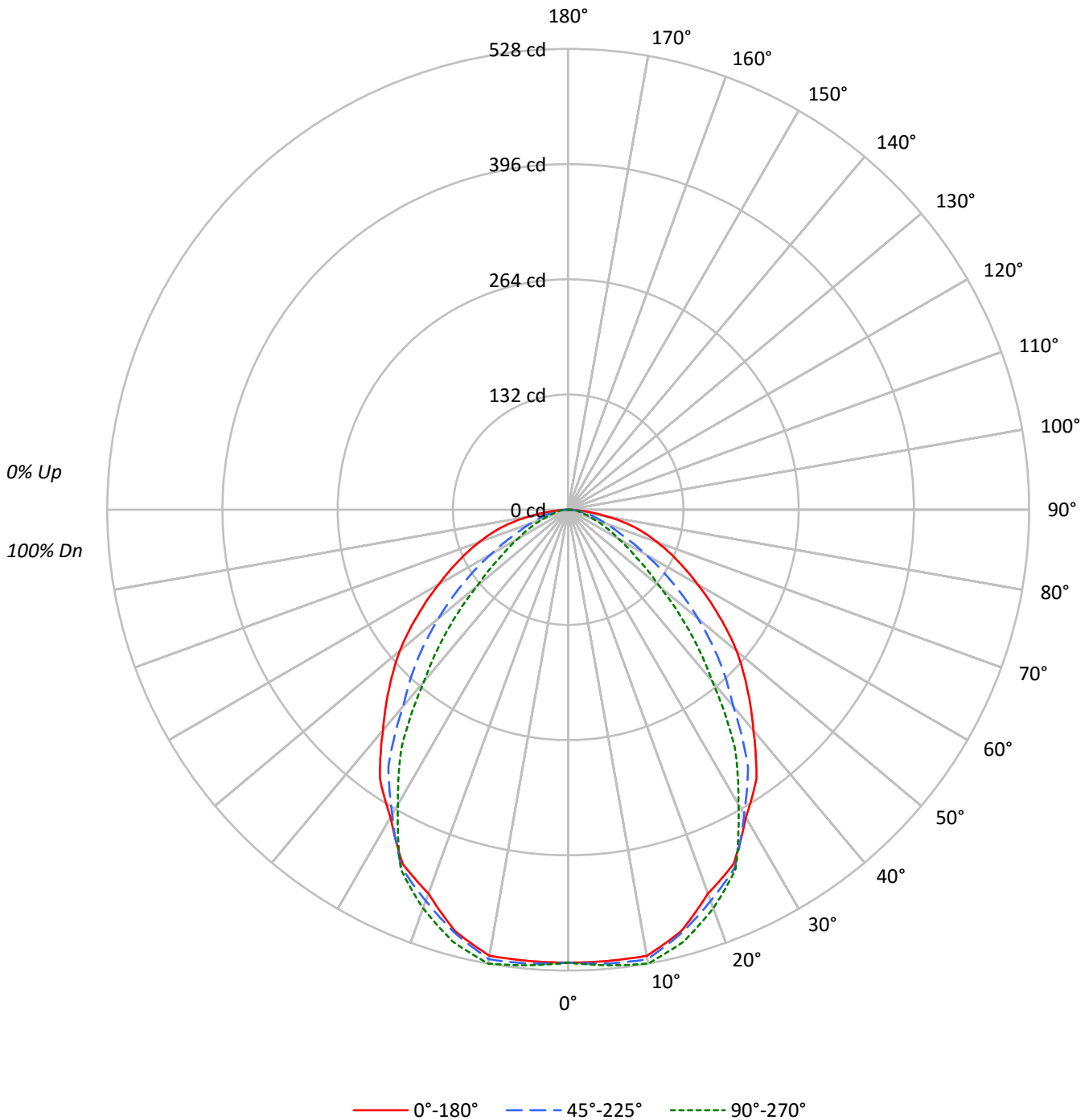
Lumens per Lamp: 1350 (1 lamp)
Luminaire Lumens: 1070.8 lumens
Efficiency: 79.3%
Efficacy: 33.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.14 / 1.19
Luminous Opening: Rectangular (W 0.4' x L: 2.44' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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										
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	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°	5786	5786	5786
5°	5809	5842	5864
10°	5876	5921	5978
15°	5771	5794	5910
20°	5553	5659	5766
25°	5511	5560	5585
30°	5240	5188	5021
35°	5118	4886	4532
40°	4803	4279	3740
45°	4573	3863	3090
50°	4371	3365	2359
55°	4082	2838	1847
60°	3813	2274	1494
65°	3641	1768	1240
70°	3521	1467	978
75°	3446	1292	818
80°	3018	1027	835
85°	2047	1023	1023



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	49.8	4.7	3.7
10°-20°	141.9	13.2	10.5
20°-30°	205.1	19.2	15.2
30°-40°	220.3	20.6	16.3
40°-50°	188.9	17.6	14.0
50°-60°	134.7	12.6	10.0
60°-70°	80.9	7.6	6.0
70°-80°	38.8	3.6	2.9
80°-90°	10.5	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°	396.8	37.1	29.4
0°-40°	617.1	57.6	45.7
0°-60°	940.7	87.8	69.7
0°-90°	1070.8	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°	1070.8	100.0	79.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	519	519	519	519	519	
5°	519	520	522	524	524	50
15°	500	502	502	509	512	140
25°	448	450	452	452	454	204
35°	376	377	359	338	333	233
45°	290	281	245	213	196	224
55°	210	189	146	108	95	189
65°	138	107	67	55	47	137
75°	80	41	30	23	19	83
85°	16	9	8	8	8	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	519	519	519	519	519
5°	519	520	522	524	524
10°	519	520	523	526	528
15°	500	502	502	509	512
20°	468	471	477	482	486
25°	448	450	452	452	454
30°	407	408	403	392	390
35°	376	377	359	338	333
40°	330	324	294	268	257
45°	290	281	245	213	196
50°	252	235	194	154	136
55°	210	189	146	108	95
60°	171	147	102	76	67
65°	138	107	67	55	47
70°	108	71	45	36	30
75°	80	41	30	23	19
80°	47	20	16	14	13
85°	16	9	8	8	8
90°	0	0	0	0	0

(END OF REPORT)