

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. 11799.0

Luminaire Tested: **194R/2T5/S17A**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 11799.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 194R/2T5/S17A
Description: 2/28W T5 1x4" RECESSED GRID MNT LUMINAIRE w/WHITE REFL
Light Source: -
FP28T5/835
Ballast/Driver: -

Summary

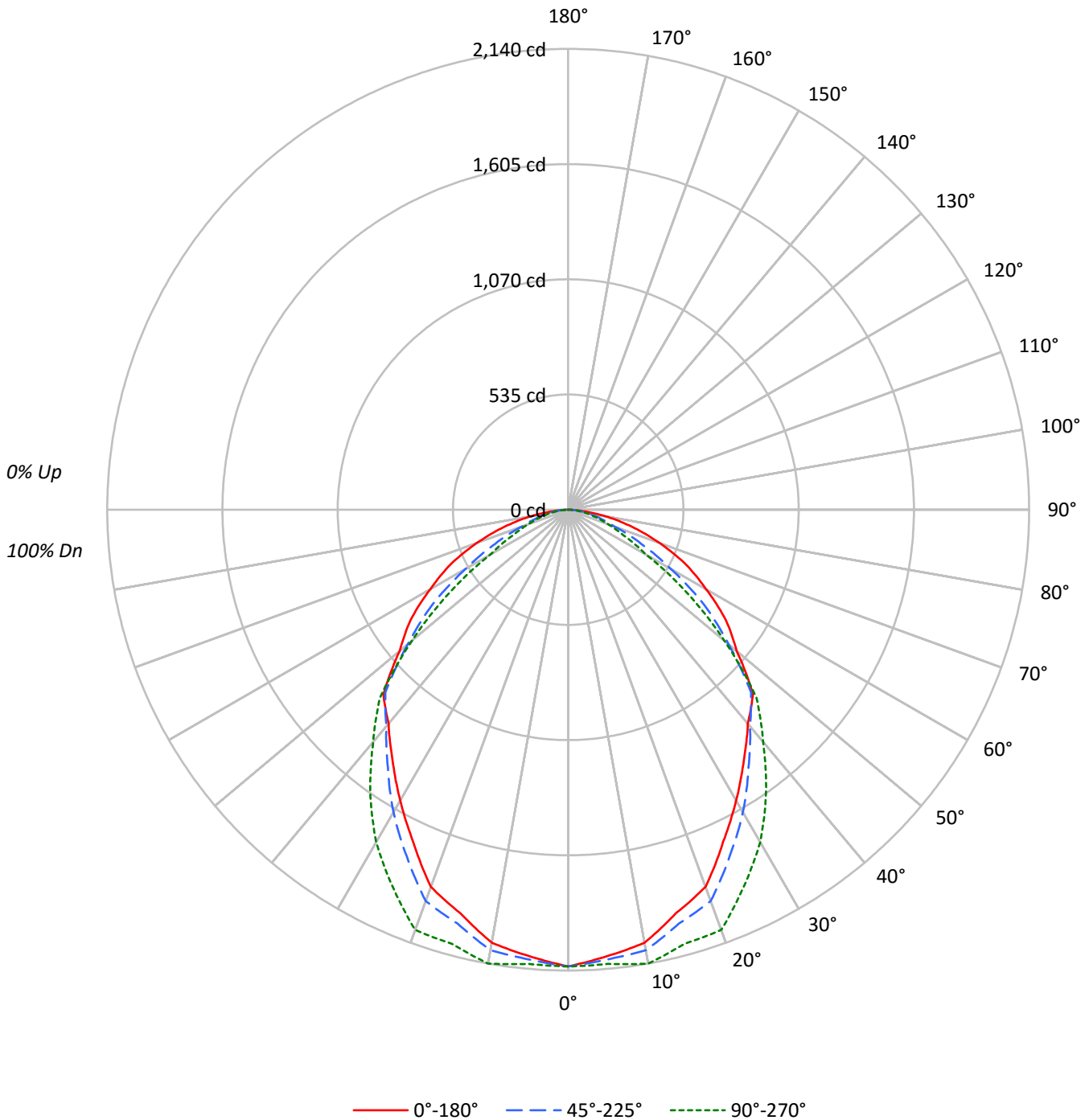
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 4788.9 lumens
Efficiency: 82.6%
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.23 / 1.26
Luminous Opening: Rectangular (W 0.9' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 66
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RCR																				
0	98	98	98	98	96	96	96	96	92	92	92		88	88	88		84	84	84	83
1	91	87	84	81	89	86	83	80	82	80	78		79	77	75		76	74	73	71
2	83	77	72	68	81	76	71	67	73	69	66		70	67	64		68	65	63	61
3	77	69	63	58	75	67	62	57	65	60	56		63	59	55		61	57	54	53
4	71	61	55	50	69	60	54	49	58	53	49		57	52	48		55	51	47	46
5	65	55	48	43	64	54	48	43	53	47	43		51	46	42		50	45	42	40
6	61	50	43	38	59	49	43	38	48	42	38		47	41	37		45	41	37	35
7	56	46	39	34	55	45	39	34	44	38	34		43	37	33		42	37	33	32
8	53	42	35	31	51	41	35	31	40	34	30		39	34	30		38	34	30	28
9	49	39	32	28	48	38	32	28	37	31	27		36	31	27		35	31	27	26
10	46	36	29	25	45	35	29	25	34	29	25		34	29	25		33	28	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6505	6505	6505
5°	6407	6453	6518
10°	6359	6468	6665
15°	6157	6315	6627
20°	6084	6312	6779
25°	5760	6007	6531
30°	5521	5744	6314
35°	5320	5466	5998
40°	5193	5257	5637
45°	5261	5205	5361
50°	4872	4633	4514
55°	4780	4123	3599
60°	4533	3361	2564
65°	4383	2707	2068
70°	4026	2053	1758
75°	3626	1801	1529
80°	3056	1572	1272
85°	2076	1372	1091



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	200.0	4.2	3.4
10°-20°	567.8	11.9	9.8
20°-30°	827.1	17.3	14.3
30°-40°	929.7	19.4	16.0
40°-50°	910.5	19.0	15.7
50°-60°	691.8	14.4	11.9
60°-70°	417.0	8.7	7.2
70°-80°	196.1	4.1	3.4
80°-90°	48.9	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°	1594.9	33.3	27.5
0°-40°	2524.5	52.7	43.5
0°-60°	4126.9	86.2	71.2
0°-90°	4788.9	100.0	82.6
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°	4788.9	100.0	82.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2121	2121	2121	2121	2121	
5°	2081	2082	2096	2109	2117	198
15°	1939	1953	1989	2046	2087	550
25°	1702	1725	1775	1853	1930	787
35°	1421	1436	1460	1526	1602	892
45°	1213	1222	1200	1185	1236	916
55°	894	878	771	678	673	794
65°	604	563	373	288	285	593
75°	306	215	152	137	129	326
85°	59	44	39	33	31	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2121	2121	2121	2121	2121
5°	2081	2082	2096	2109	2117
10°	2042	2051	2077	2117	2140
15°	1939	1953	1989	2046	2087
20°	1864	1885	1934	2008	2077
25°	1702	1725	1775	1853	1930
30°	1559	1576	1622	1702	1783
35°	1421	1436	1460	1526	1602
40°	1297	1309	1313	1344	1408
45°	1213	1222	1200	1185	1236
50°	1021	1021	971	917	946
55°	894	878	771	678	673
60°	739	710	548	437	418
65°	604	563	373	288	285
70°	449	381	229	202	196
75°	306	215	152	137	129
80°	173	106	89	79	72
85°	59	44	39	33	31
90°	0	0	0	0	0

(END OF REPORT)