

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. 12910.0

Luminaire Tested: **194R-2T8-ETG-1-EB-SI-S17C**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 12910.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 194R-2T8-ETG-1-EB-SI-S17C
Description: 2/32W T8 1x4'DIRECT RECESSED GRID LUMINAIRE w/WHITE REFL
Light Source: -
F32WT8/835/RS
Ballast/Driver: UNIVERSAL BALLAST #B232IUNVHP-B WATTS=55 STEEL REFL=93%

Summary

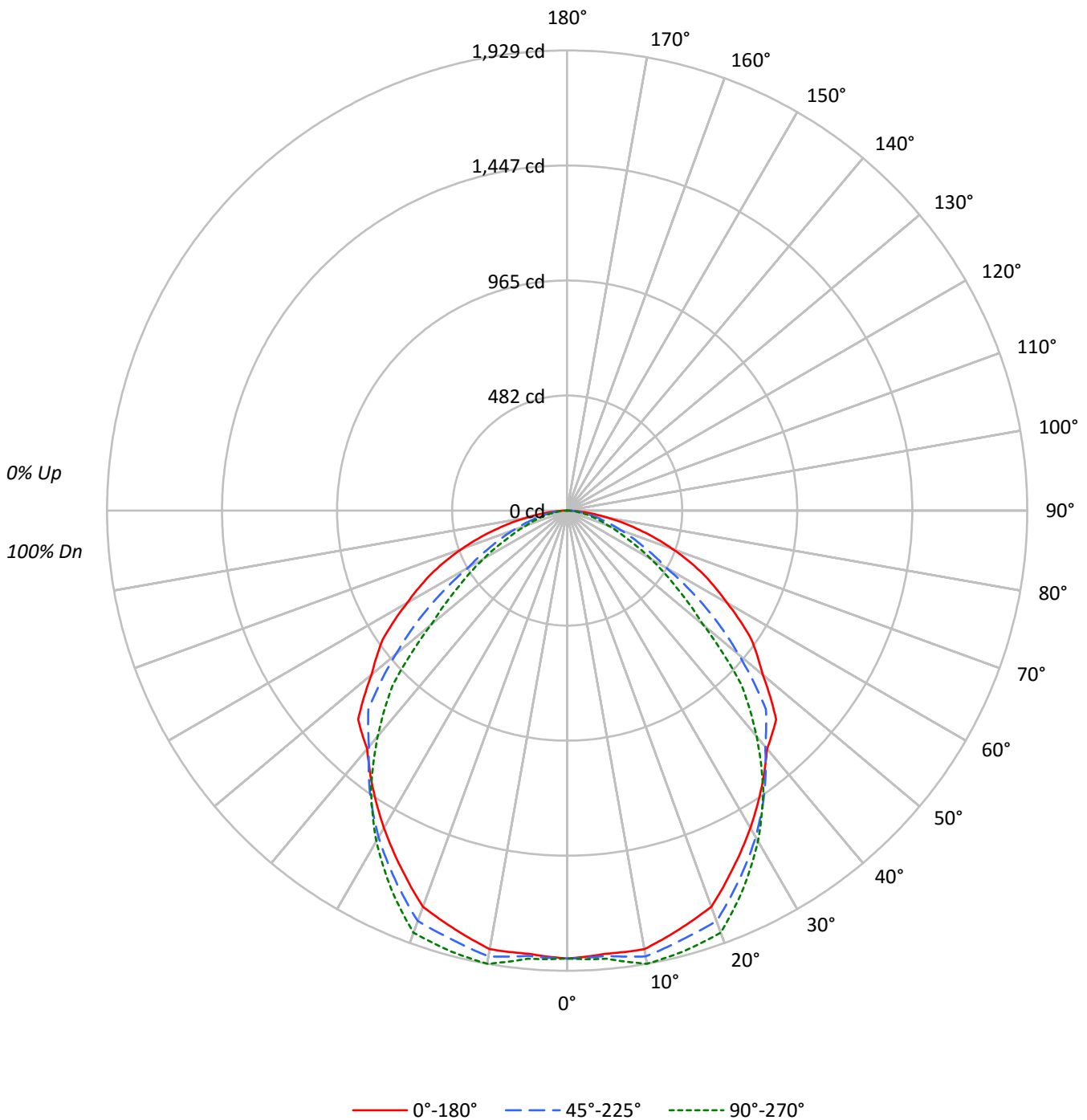
Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 4572.6 lumens
Efficiency: 77.5%
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.33
Luminous Opening: Rectangular (W 0.9' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 55
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	0	
RCR																						
0	92	92	92	92	90	90	90	90	86	86	86	82	82	82	79	79	79	78				
1	85	82	79	76	83	80	77	75	77	75	73	74	72	70	71	70	68	67				
2	78	72	68	64	76	71	67	63	68	65	61	66	63	60	63	61	59	57				
3	72	64	58	54	70	63	58	53	61	56	52	59	55	52	57	53	51	49				
4	66	57	51	46	64	56	51	46	55	49	45	53	48	45	51	47	44	43				
5	61	52	45	40	59	51	45	40	49	44	40	48	43	39	46	42	39	37				
6	57	47	40	36	55	46	40	35	45	39	35	43	39	35	42	38	34	33				
7	53	43	36	32	51	42	36	31	41	35	31	40	35	31	39	34	31	29				
8	49	39	33	28	48	38	32	28	37	32	28	37	32	28	36	31	28	26				
9	46	36	30	26	45	35	30	26	35	29	25	34	29	25	33	29	25	24				
10	43	33	27	23	42	33	27	23	32	27	23	31	27	23	31	26	23	22				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5760	5760	5760
5°	5742	5769	5806
10°	5814	5911	6007
15°	5769	5912	6065
20°	5767	5976	6146
25°	5584	5777	5915
30°	5440	5599	5666
35°	5317	5399	5369
40°	5221	5173	4944
45°	5374	5109	4480
50°	5105	4476	3545
55°	5048	3802	2962
60°	4748	2938	2484
65°	4565	2511	1988
70°	4224	2143	1632
75°	3721	1813	1422
80°	3073	1554	1183
85°	2182	1302	950



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	179.8	3.9	3.0
10°-20°	527.0	11.5	8.9
20°-30°	784.8	17.2	13.3
30°-40°	897.1	19.6	15.2
40°-50°	872.0	19.1	14.8
50°-60°	657.7	14.4	11.1
60°-70°	412.3	9.0	7.0
70°-80°	193.6	4.2	3.3
80°-90°	48.2	1.1	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°	1491.7	32.6	25.3
0°-40°	2388.8	52.2	40.5
0°-60°	3918.5	85.7	66.4
0°-90°	4572.6	100.0	77.5
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°	4572.6	100.0	77.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1878	1878	1878	1878	1878	
5°	1865	1869	1874	1883	1886	178
15°	1817	1833	1862	1891	1910	514
25°	1650	1679	1707	1725	1748	762
35°	1420	1453	1442	1423	1434	890
45°	1239	1258	1178	1058	1033	937
55°	944	928	711	548	554	835
65°	629	573	346	288	274	620
75°	314	203	153	131	120	336
85°	62	44	37	32	27	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1878	1878	1878	1878	1878
5°	1865	1869	1874	1883	1886
10°	1867	1876	1898	1919	1929
15°	1817	1833	1862	1891	1910
20°	1767	1791	1831	1858	1883
25°	1650	1679	1707	1725	1748
30°	1536	1568	1581	1581	1600
35°	1420	1453	1442	1423	1434
40°	1304	1332	1292	1239	1235
45°	1239	1258	1178	1058	1033
50°	1070	1066	938	776	743
55°	944	928	711	548	554
60°	774	743	479	405	405
65°	629	573	346	288	274
70°	471	371	239	198	182
75°	314	203	153	131	120
80°	174	110	88	75	67
85°	62	44	37	32	27
90°	0	0	0	0	0

(END OF REPORT)