

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: BAL 12165

Luminaire Tested: **S2343T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BAL 12165
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S2343T8
Description: 3/32W T8 LAMP 2x4'RECESSED INDIRECT GRID MNT LUMINAIRE
Light Source: -
F32T8/835
Ballast/Driver: BLST #B332IUNVHP-B WATTS=84 C

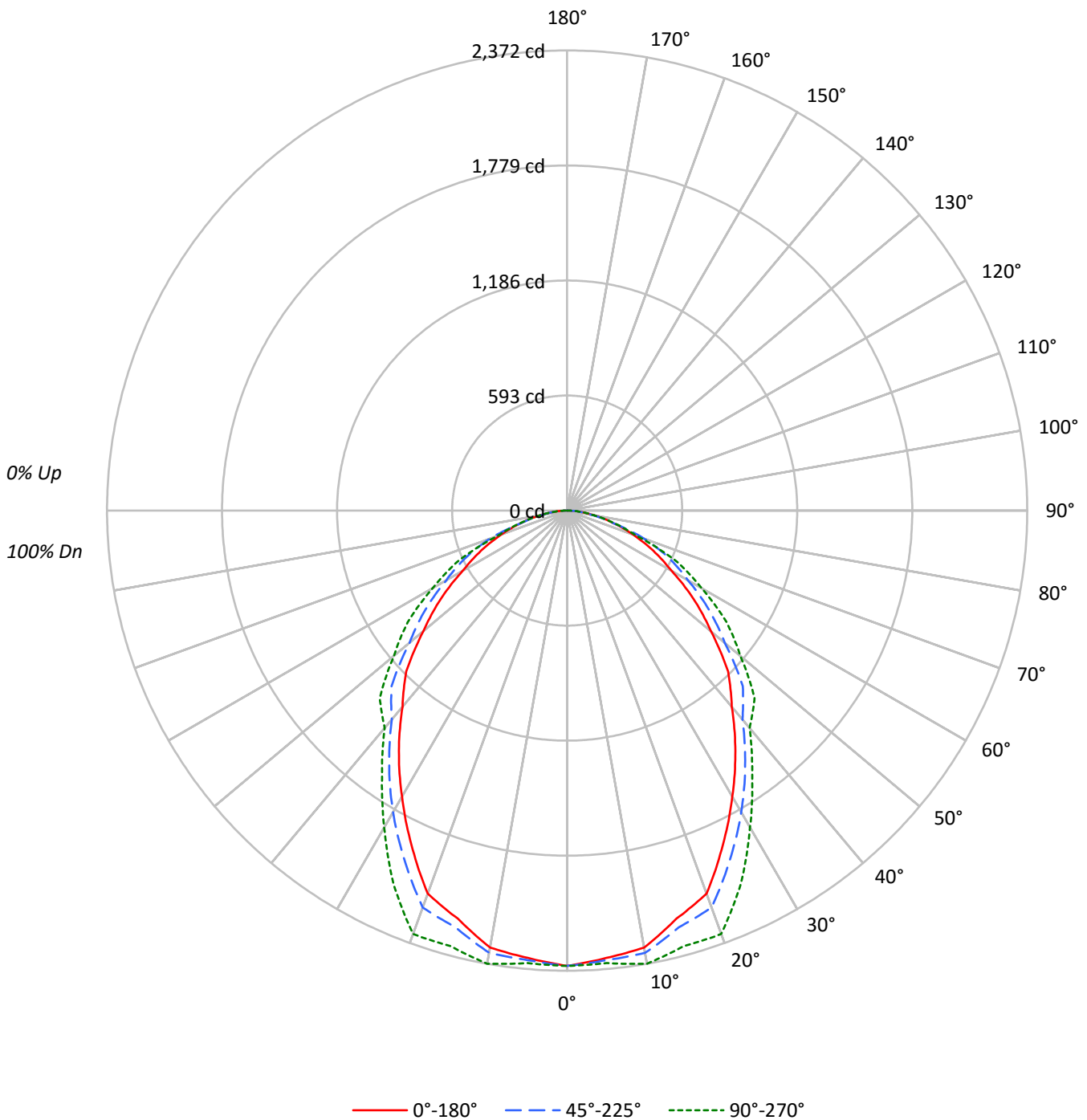
Summary

Lumens per Lamp: 2950 (3 lamps)
Luminaire Lumens: 5431.4 lumens
Efficiency: 61.4%
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.19 / 1.24
Luminous Opening: Rectangular (W 1.95' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 84
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	0
RCR																		
0	73	73	73	73	71	71	71	71	68	68	68	65	65	65	63	63	63	61
1	67	65	62	60	66	63	61	59	61	59	57	58	57	55	56	55	54	53
2	62	57	53	50	60	56	52	49	54	51	48	52	49	47	50	48	46	45
3	57	50	46	42	55	49	45	42	48	44	41	46	43	40	44	42	39	38
4	52	45	40	36	51	44	39	36	43	39	35	41	38	35	40	37	34	33
5	48	40	35	31	47	40	35	31	39	34	31	37	34	31	36	33	30	29
6	44	37	31	28	43	36	31	27	35	31	27	34	30	27	33	30	27	26
7	41	33	28	25	40	33	28	25	32	28	24	31	27	24	30	27	24	23
8	39	31	26	22	38	30	25	22	29	25	22	29	25	22	28	24	22	21
9	36	28	23	20	35	28	23	20	27	23	20	26	23	20	26	22	20	19
10	34	26	21	18	33	26	21	18	25	21	18	25	21	18	24	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3311	3311	3311
5°	3278	3294	3315
10°	3276	3316	3398
15°	3181	3248	3394
20°	3154	3268	3487
25°	2957	3091	3300
30°	2774	2924	3072
35°	2604	2755	2864
40°	2431	2589	2694
45°	2340	2554	2725
50°	2122	2328	2559
55°	1958	2196	2467
60°	1752	2031	2260
65°	1636	1936	2090
70°	1489	1736	1571
75°	1330	1297	1363
80°	1137	1080	1145
85°	971	971	971



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	222.2	4.1	2.5
10°-20°	635.3	11.7	7.2
20°-30°	917.4	16.9	10.4
30°-40°	995.1	18.3	11.2
40°-50°	963.7	17.7	10.9
50°-60°	796.2	14.7	9.0
60°-70°	556.7	10.2	6.3
70°-80°	274.2	5.0	3.1
80°-90°	70.7	1.3	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°	1774.8	32.7	20.1
0°-40°	2769.9	51.0	31.3
0°-60°	4529.8	83.4	51.2
0°-90°	5431.4	100.0	61.4
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°	5431.4	100.0	61.4

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2347	2347	2347	2347	2347	
5°	2315	2318	2326	2335	2341	220
15°	2178	2187	2224	2283	2324	618
25°	1900	1917	1986	2058	2120	876
35°	1512	1541	1600	1624	1663	946
45°	1173	1206	1280	1320	1366	894
55°	796	827	893	957	1003	711
65°	490	530	580	610	626	486
75°	244	273	238	244	250	261
85°	60	56	60	60	60	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2347	2347	2347	2347	2347
5°	2315	2318	2326	2335	2341
10°	2287	2295	2315	2349	2372
15°	2178	2187	2224	2283	2324
20°	2101	2117	2177	2260	2323
25°	1900	1917	1986	2058	2120
30°	1703	1727	1795	1837	1886
35°	1512	1541	1600	1624	1663
40°	1320	1353	1406	1433	1463
45°	1173	1206	1280	1320	1366
50°	967	989	1061	1117	1166
55°	796	827	893	957	1003
60°	621	660	720	764	801
65°	490	530	580	610	626
70°	361	398	421	398	381
75°	244	273	238	244	250
80°	140	156	133	138	141
85°	60	56	60	60	60
90°	0	0	0	0	0

(END OF REPORT)