

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. 11377.0

Luminaire Tested: **244/3T8 (2 OUTBOARD LAMPS ON, CENTER LAMP OFF)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 11377.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 244/3T8 (2 OUTBOARD LAMPS ON, CENTER LAMP OFF)
Description: 3/32W T8 LAMP 2x4'RECESSED INDIRECT GRID MNT LUMINAIRE
Light Source: -
F32T8/835/RS
Ballast/Driver: MAGNETEK BLST #B132I120RH & B232I120RH WATTS=58 REFL=96%

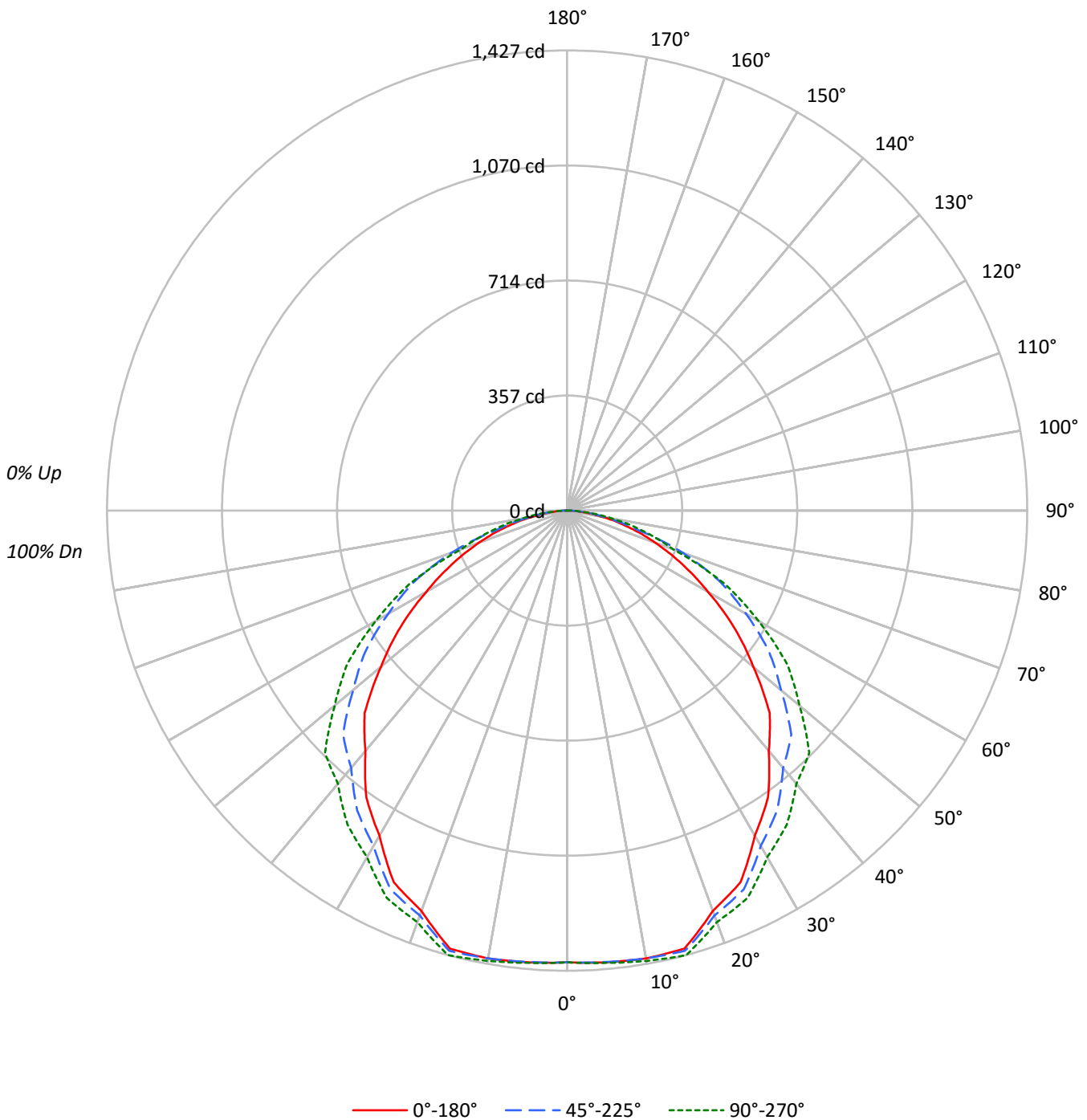
Summary

Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 4030.8 lumens
Efficiency: 68.3%
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.32 / 1.41
Luminous Opening: Rectangular (W 1.89' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 58
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	81	81	81	81	79	79	79	79	76	76	76	73	73	73	70	70	70	68
1	74	71	68	66	73	70	67	65	67	65	63	64	62	61	62	60	59	58
2	68	62	58	54	66	61	57	53	59	55	52	56	53	51	54	52	50	48
3	62	55	49	45	60	54	48	44	52	47	44	50	46	43	48	45	42	41
4	57	48	42	38	55	48	42	38	46	41	37	44	40	37	43	39	36	35
5	52	43	37	33	51	43	37	32	41	36	32	40	35	32	38	35	31	30
6	48	39	33	28	47	38	33	28	37	32	28	36	31	28	35	31	28	26
7	45	35	29	25	43	35	29	25	34	29	25	33	28	25	32	28	24	23
8	41	32	26	22	40	32	26	22	31	26	22	30	25	22	29	25	22	21
9	39	30	24	20	38	29	24	20	28	23	20	28	23	20	27	23	20	19
10	36	27	22	18	35	27	22	18	26	21	18	26	21	18	25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2036	2036	2036
5°	2051	2050	2054
10°	2081	2081	2092
15°	2115	2126	2147
20°	2043	2066	2100
25°	2040	2078	2125
30°	1953	2015	2082
35°	1927	2014	2108
40°	1846	1977	2098
45°	1825	2020	2183
50°	1705	1958	2127
55°	1601	1938	2113
60°	1468	1863	1994
65°	1351	1802	1857
70°	1232	1619	1483
75°	1095	1224	1364
80°	912	1004	1180
85°	717	817	867



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	134.4	3.3	2.3
10°-20°	394.6	9.8	6.7
20°-30°	592.6	14.7	10.0
30°-40°	707.3	17.5	12.0
40°-50°	745.0	18.5	12.6
50°-60°	665.8	16.5	11.3
60°-70°	485.7	12.0	8.2
70°-80°	245.3	6.1	4.2
80°-90°	60.2	1.5	1.0
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°	1121.5	27.8	19.0
0°-40°	1828.8	45.4	31.0
0°-60°	3239.6	80.4	54.9
0°-90°	4030.8	100.0	68.3
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°	4030.8	100.0	68.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1406	1405	1405	1406	1408	134
15°	1406	1408	1413	1422	1427	392
25°	1272	1277	1296	1317	1325	580
35°	1086	1098	1135	1172	1188	675
45°	888	919	983	1039	1062	676
55°	632	683	765	818	834	564
65°	393	457	524	539	540	391
75°	195	237	218	235	243	208
85°	43	43	49	52	52	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1401	1401	1401	1401	1401
5°	1406	1405	1405	1406	1408
10°	1410	1408	1410	1416	1418
15°	1406	1408	1413	1422	1427
20°	1321	1325	1336	1352	1358
25°	1272	1277	1296	1317	1325
30°	1164	1172	1201	1230	1241
35°	1086	1098	1135	1172	1188
40°	973	994	1042	1089	1106
45°	888	919	983	1039	1062
50°	754	792	866	922	941
55°	632	683	765	818	834
60°	505	561	641	680	686
65°	393	457	524	539	540
70°	290	346	381	354	349
75°	195	237	218	235	243
80°	109	121	120	136	141
85°	43	43	49	52	52
90°	0	0	0	0	0

(END OF REPORT)