

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. 11378.0

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 11378.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 244/3T8 (2 OUTBOARD LAMPS OFF, CENTER LAMP ON)
Description: 3/32W T8 LAMP 2x4'RECESSED INDIRECT GRID MNT LUMINAIRE
Light Source: -
F32T8/835/RS
Ballast/Driver: MAGNETEK BLST #B132I120RH & B232I120RH WATTS=29 REFL=96%

Summary

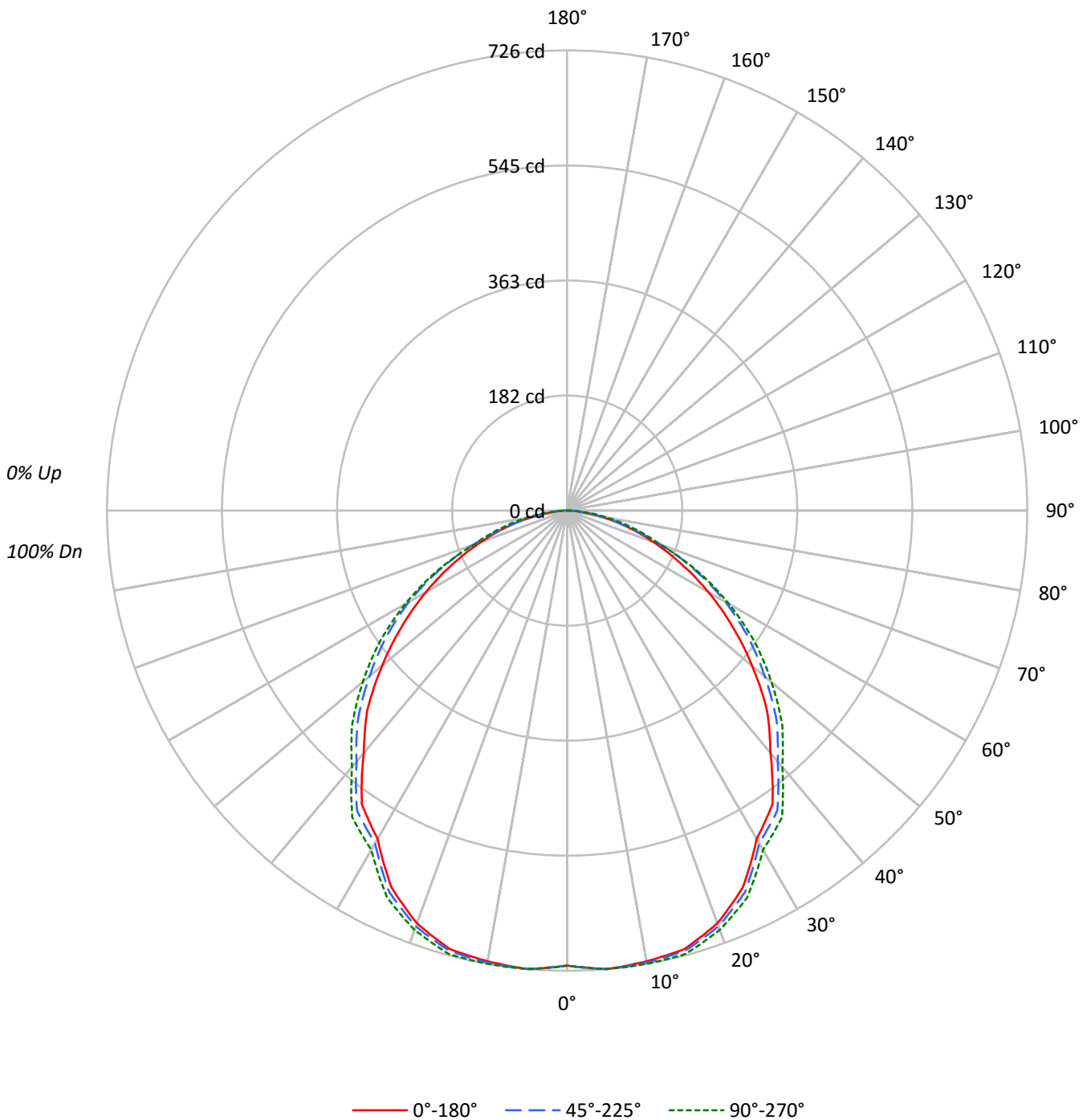
Lumens per Lamp: 2950 (1 lamp)
Luminaire Lumens: 1948.9 lumens
Efficiency: 66.1%
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1.89' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29
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	79	79	79	79	77	77	77	77	73	73	73	70	70	70	67	67	67	66
1	72	69	67	64	70	68	65	63	65	63	61	62	61	59	60	59	57	56
2	66	61	56	53	64	59	55	52	57	54	51	55	52	50	53	51	49	47
3	60	53	48	44	59	52	48	44	50	46	43	49	45	42	47	44	41	40
4	55	48	42	38	54	47	41	37	45	40	37	43	40	36	42	39	36	34
5	51	43	37	32	50	42	36	32	40	36	32	39	35	32	38	34	31	30
6	47	38	33	28	46	38	32	28	37	32	28	35	31	28	34	31	28	26
7	44	35	29	25	43	34	29	25	33	28	25	32	28	25	31	28	25	23
8	41	32	26	23	40	31	26	22	31	26	22	30	25	22	29	25	22	21
9	38	29	24	20	37	29	24	20	28	23	20	27	23	20	27	23	20	19
10	36	27	22	18	35	27	22	18	26	21	18	25	21	18	25	21	18	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1043	1043	1043
5°	1059	1059	1059
10°	1065	1068	1071
15°	1077	1082	1089
20°	1072	1079	1089
25°	1052	1065	1079
30°	1003	1017	1037
35°	1002	1025	1048
40°	947	981	1002
45°	917	960	986
50°	861	920	952
55°	806	884	915
60°	747	837	857
65°	681	767	784
70°	612	667	659
75°	539	539	612
80°	427	444	536
85°	317	383	434



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	69.1	3.5	2.3
10°-20°	202.4	10.4	6.9
20°-30°	303.5	15.6	10.3
30°-40°	357.2	18.3	12.1
40°-50°	356.9	18.3	12.1
50°-60°	307.7	15.8	10.4
60°-70°	216.1	11.1	7.3
70°-80°	108.4	5.6	3.7
80°-90°	27.5	1.4	0.9
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°	575.1	29.5	19.5
0°-40°	932.3	47.8	31.6
0°-60°	1596.9	81.9	54.1
0°-90°	1948.9	100.0	66.1
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°	1948.9	100.0	66.1

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	718	718	718	718	718	
5°	726	724	726	727	726	69
15°	716	714	719	724	724	201
25°	656	656	664	669	673	300
35°	565	572	578	588	591	349
45°	446	452	467	475	480	342
55°	318	333	349	356	361	285
65°	198	212	223	227	228	197
75°	96	101	96	104	109	102
85°	19	19	23	26	26	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	718	718	718	718	718
5°	726	724	726	727	726
10°	722	722	724	727	726
15°	716	714	719	724	724
20°	693	693	698	701	704
25°	656	656	664	669	673
30°	598	600	606	615	618
35°	565	572	578	588	591
40°	499	505	517	525	528
45°	446	452	467	475	480
50°	381	394	407	416	421
55°	318	333	349	356	361
60°	257	273	288	293	295
65°	198	212	223	227	228
70°	144	154	157	154	155
75°	96	101	96	104	109
80°	51	51	53	61	64
85°	19	19	23	26	26
90°	0	0	0	0	0

(END OF REPORT)