

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. 9826.0

Luminaire Tested: **79PF/1T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 9826.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 79PF/1T8
Description: 1/32W T8 LAMP 4'PERIMETER RECESSED WALL WASH LUMINAIRE
Light Source: -
F32T8/735/RS
Ballast/Driver: ENERGY SAVINGS BALLAST #ES-1-T8-32-120-A-S

Summary

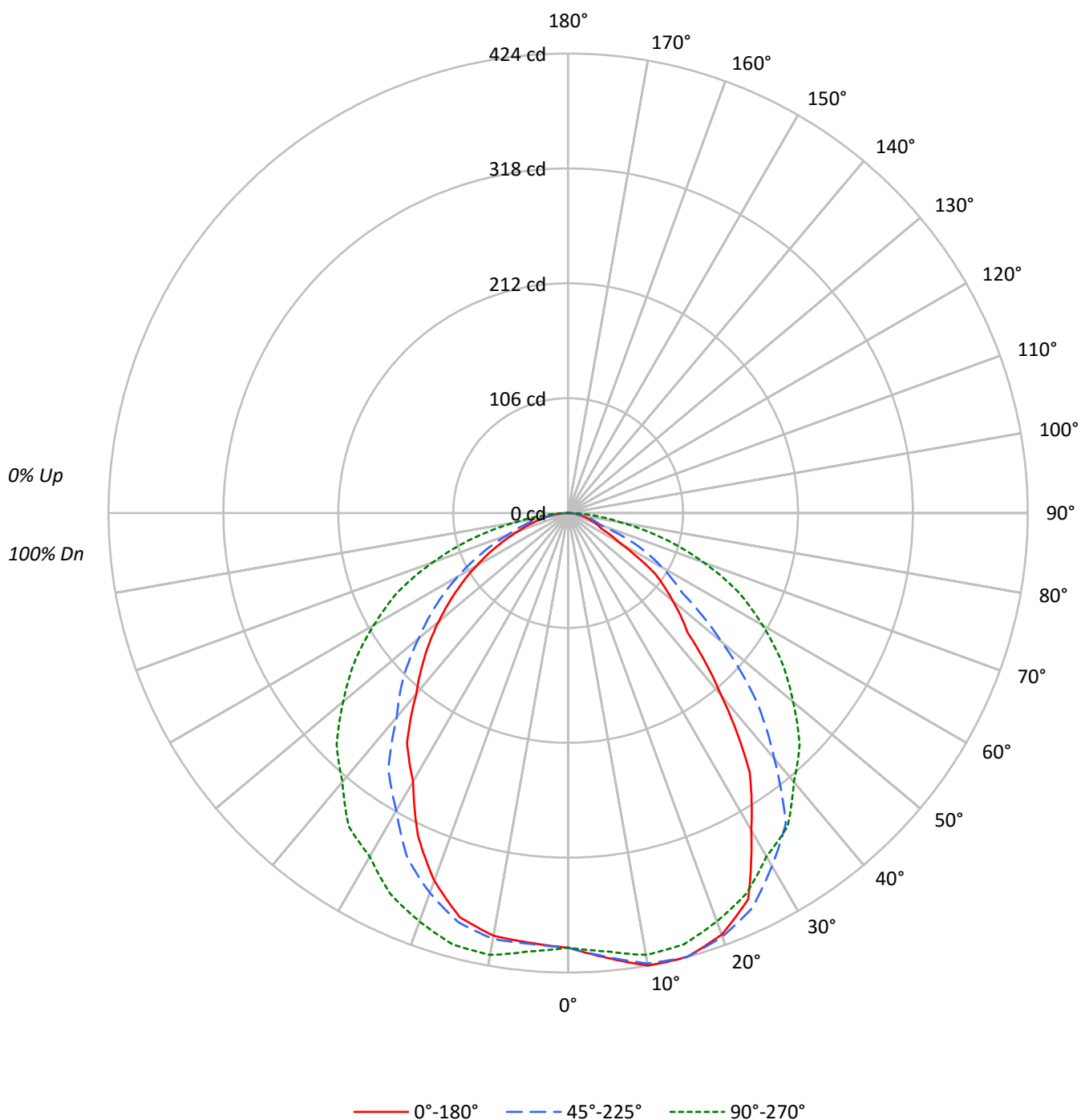
Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 991.4 lumens
Efficiency: 34.8%
Efficacy: 31.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.36 / 1.31
Luminous Opening: Rectangular (W 4' x L: 0.58' x H: 0')
CIE Type: Direct

Input Watts (W): 32
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



TEST NUMBER: BALLABS TEST NO. 9826.0
CATALOG NUMBER: 79PF/1T8

Luminous Intensity Polar Plot



TEST NUMBER: BALLABS TEST NO. 9826.0

CATALOG NUMBER: 79PF/1T8

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	41	41	41	41	40	40	40	40	39	39	39	37	37	37	35	35	35
1	38	37	35	34	37	36	35	34	34	33	33	33	32	32	32	31	31
2	35	32	30	28	34	32	30	28	31	29	27	29	28	27	28	27	26
3	32	29	26	24	31	28	26	24	27	25	23	26	25	23	25	24	23
4	30	26	23	21	29	25	23	21	24	22	20	24	22	20	23	21	20
5	27	23	20	18	27	23	20	18	22	20	18	21	19	18	21	19	17
6	25	21	18	16	25	21	18	16	20	18	16	19	17	16	19	17	15
7	24	19	16	14	23	19	16	14	18	16	14	18	16	14	17	15	14
8	22	17	15	13	21	17	15	13	17	14	13	16	14	13	16	14	12
9	21	16	13	11	20	16	13	11	16	13	11	15	13	11	15	13	11
10	19	15	12	10	19	15	12	10	14	12	10	14	12	10	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	1851	1851	1851
5°	1909	1881	1844
10°	1987	1940	1856
15°	2026	1969	1845
20°	2034	1970	1773
25°	2002	1976	1670
30°	1801	1951	1524
35°	1645	1989	1459
40°	1326	1952	1314
45°	1018	1971	1221
50°	905	1946	1120
55°	789	1939	1014
60°	508	1911	905
65°	371	1900	786
70°	351	1795	661
75°	321	1641	571
80°	292	1302	505
85°	212	1112	424

TEST NUMBER: BALLABS TEST NO. 9826.0

CATALOG NUMBER: 79PF/1T8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	38.8	3.9	1.4
10°-20°	114.6	11.6	4.0
20°-30°	171.4	17.3	6.0
30°-40°	195.1	19.7	6.8
40°-50°	181.0	18.3	6.3
50°-60°	143.2	14.4	5.0
60°-70°	91.7	9.2	3.2
70°-80°	44.0	4.4	1.5
80°-90°	11.6	1.2	0.4
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°	324.9	32.8	11.4
0°-40°	520.0	52.4	18.2
0°-60°	844.2	85.1	29.6
0°-90°	991.4	100.0	34.8
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°	991.4	100.0	34.8

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	401	401	401	401	401	
5°	412	411	406	399	398	40
15°	424	424	412	391	386	119
25°	393	402	388	351	328	177
35°	292	350	353	289	259	178
45°	156	246	302	215	187	127
55°	98	129	241	149	126	84
65°	34	70	174	88	72	37
75°	18	23	92	41	32	19
85°	4	8	21	11	8	5
90°	0	0	0	0	0	

TEST NUMBER: BALLABS TEST NO. 9826.0

CATALOG NUMBER: 79PF/1T8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	401	401	401	401	401	401	401	401	401
5°	412	411	411	409	406	402	399	399	398
10°	424	422	422	417	414	404	399	398	396
15°	424	422	424	419	412	397	391	388	386
20°	414	416	416	411	401	385	373	366	361
25°	393	399	402	399	388	366	351	337	328
30°	338	353	376	376	366	340	317	292	286
35°	292	312	350	363	353	324	289	266	259
40°	220	245	296	332	324	289	246	225	218
45°	156	184	246	309	302	261	215	194	187
50°	126	134	185	269	271	222	180	161	156
55°	98	108	129	225	241	187	149	131	126
60°	55	74	100	172	207	151	118	101	98
65°	34	36	70	123	174	118	88	75	72
70°	26	26	31	72	133	82	60	50	49
75°	18	19	23	44	92	54	41	34	32
80°	11	13	14	16	49	29	23	19	19
85°	4	6	8	8	21	13	11	9	8
90°	0	0	0	0	0	0	0	0	0

(END OF REPORT)