

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: 12276

Luminaire Tested: **SN82R-2Y5-ETG4D-1EB-SI-S22**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: 12276
Test Lab: LUMINAIRE TESTING LABORATORY, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SN82R-2Y5-ETG4D-1EB-SI-S22
Description: FORMED STEEL HOUSING, FORMED WHITE ENAMEL STEEL REFLECTOR,
TRANSLUCENT WHITE ACRYLIC ENCLOSURE.
Light Source: TWO 28 WATT T5 LINEAR FLUORESCENT LAMPS RATED AT 2610 LUMENS
EACH.
PHILIPS F28T5/835
Ballast/Driver: ONE UNIVERSAL LIGHTING TECHNOLOGIES B228PUNV-C

Summary

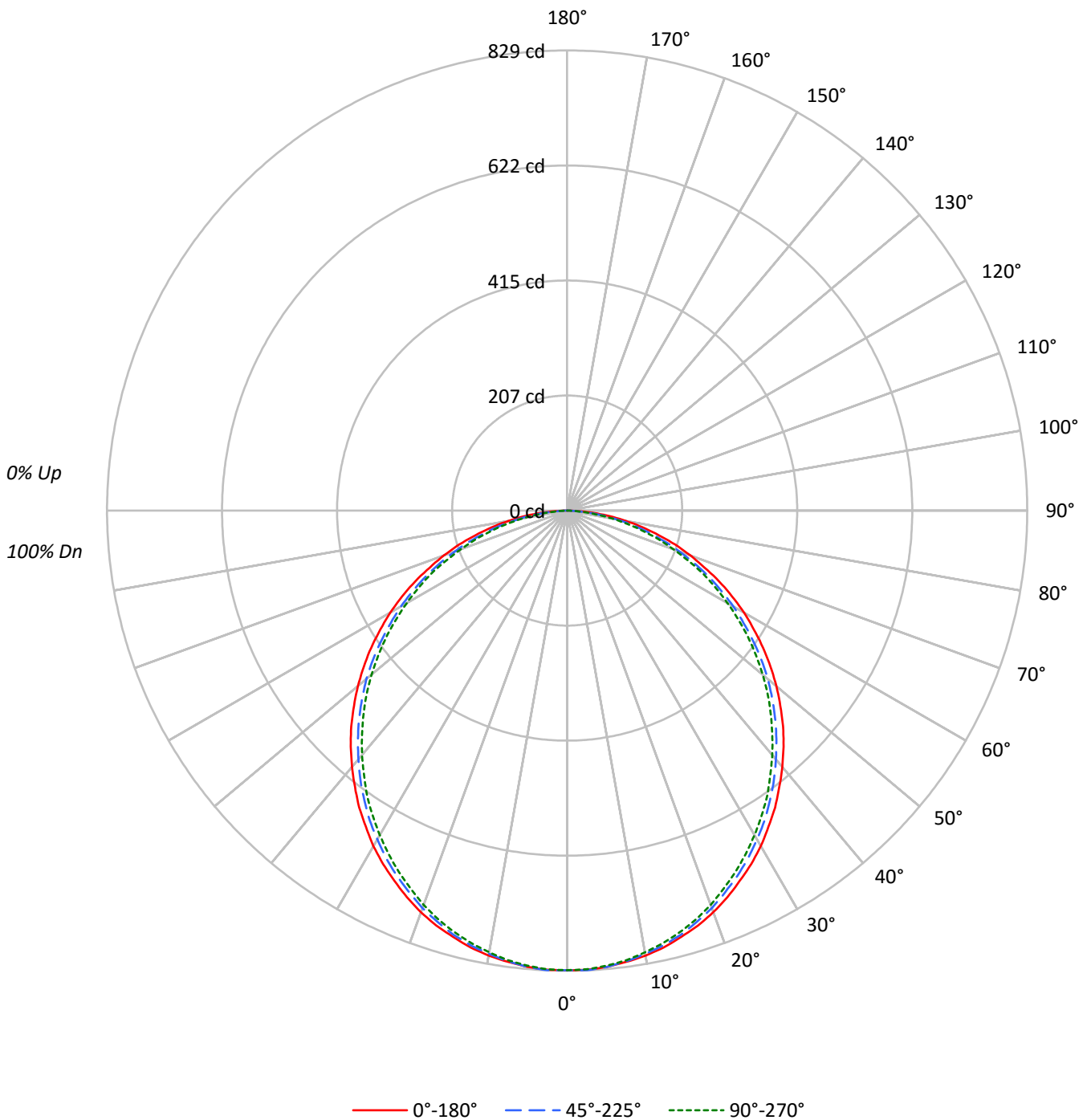
Lumens per Lamp: 2610 (2 lamps)
Luminaire Lumens: 2293.6 lumens
Efficiency: 43.9%
Efficacy: 38.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.22 / 1.35
Luminous Opening: Rectangular (W 0.36' x L: 3.87' x H: 0')
CIE Type: Direct

Input Watts (W): 60
Input Voltage (V): NR
Input Current (A_{in}): 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	52	52	52	52	51	51	51	51	49	49	49	47	47	47	45	45	45	44
1	48	46	44	42	47	45	43	41	43	41	40	41	40	39	39	39	38	37
2	43	40	37	34	42	39	36	34	37	35	33	36	34	32	35	33	32	31
3	40	35	31	28	38	34	31	28	33	30	28	32	29	27	31	29	27	26
4	36	31	27	24	35	30	27	24	29	26	24	28	25	23	27	25	23	22
5	33	28	24	21	32	27	23	21	26	23	20	25	22	20	25	22	20	19
6	31	25	21	18	30	24	21	18	24	20	18	23	20	18	22	20	18	17
7	29	23	19	16	28	22	19	16	22	18	16	21	18	16	20	18	16	15
8	27	21	17	14	26	20	17	14	20	16	14	19	16	14	19	16	14	13
9	25	19	15	13	24	19	15	13	18	15	13	18	15	13	17	15	13	12
10	23	17	14	12	23	17	14	12	17	14	12	16	14	12	16	13	11	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6397	6397	6397
5°	6398	6398	6383
10°	6386	6362	6339
15°	6359	6327	6287
20°	6331	6265	6216
25°	6274	6189	6121
30°	6227	6102	6022
35°	6159	6008	5923
40°	6082	5900	5799
45°	6009	5791	5671
50°	5914	5673	5529
55°	5806	5509	5361
60°	5686	5346	5161
65°	5521	5137	4954
70°	5331	4857	4608
75°	5105	4508	4209
80°	4761	4004	3604
85°	4255	2925	2305



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	78.1	3.4	1.5
10°-20°	222.6	9.7	4.3
20°-30°	334.2	14.6	6.4
30°-40°	398.7	17.4	7.6
40°-50°	409.5	17.9	7.8
50°-60°	367.3	16.0	7.0
60°-70°	279.3	12.2	5.4
70°-80°	161.9	7.1	3.1
80°-90°	42.0	1.8	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°	634.9	27.7	12.2
0°-40°	1033.6	45.1	19.8
0°-60°	1810.4	78.9	34.7
0°-90°	2293.6	100.0	43.9
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°	2293.6	100.0	43.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	828	828	828	828	828	
5°	825	822	825	822	823	78
15°	795	791	791	785	786	225
25°	736	729	726	719	718	339
35°	653	644	637	629	628	408
45°	550	539	530	521	519	424
55°	431	420	409	400	398	385
65°	302	291	281	272	271	299
75°	171	161	151	144	141	181
85°	48	40	33	27	26	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	828	828	828	828	828
2.5°	828	825	829	826	827
5°	825	822	825	822	823
7.5°	820	816	819	815	817
10°	814	810	811	807	808
12.5°	806	801	802	797	798
15°	795	791	791	785	786
17.5°	784	778	777	771	772
20°	770	764	762	755	756
22.5°	754	747	744	737	737
25°	736	729	726	719	718
27.5°	718	710	706	699	697
30°	698	689	684	676	675
32.5°	675	667	662	653	652
35°	653	644	637	629	628
37.5°	628	619	612	603	601
40°	603	593	585	577	575
42.5°	577	566	558	549	547
45°	550	539	530	521	519
47.5°	521	510	501	492	490
50°	492	481	472	462	460
52.5°	462	451	441	432	429
55°	431	420	409	400	398
57.5°	399	388	377	369	366
60°	368	356	346	337	334
62.5°	335	323	313	305	302
65°	302	291	281	272	271
67.5°	268	258	248	239	236
70°	236	225	215	207	204
72.5°	204	193	183	175	173
75°	171	161	151	144	141
77.5°	139	130	120	113	111
80°	107	99	90	83	81
82.5°	78	69	61	54	52
85°	48	40	33	27	26
87.5°	20	14	11	9	9
90°	0	0	0	0	0

(END OF REPORT)