

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. 12525.0

Luminaire Tested: **2SDS/2T8-S14**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 12525.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 2SDS/2T8-S14
Description: 2/32W T8 LAMPS 4'BIDIRECTIONAL SURFACE MNT LUMINAIRE
Light Source: -
F32T8/835/RS
Ballast/Driver: UNIVERSAL BALLAST #B232IUNVHP-B

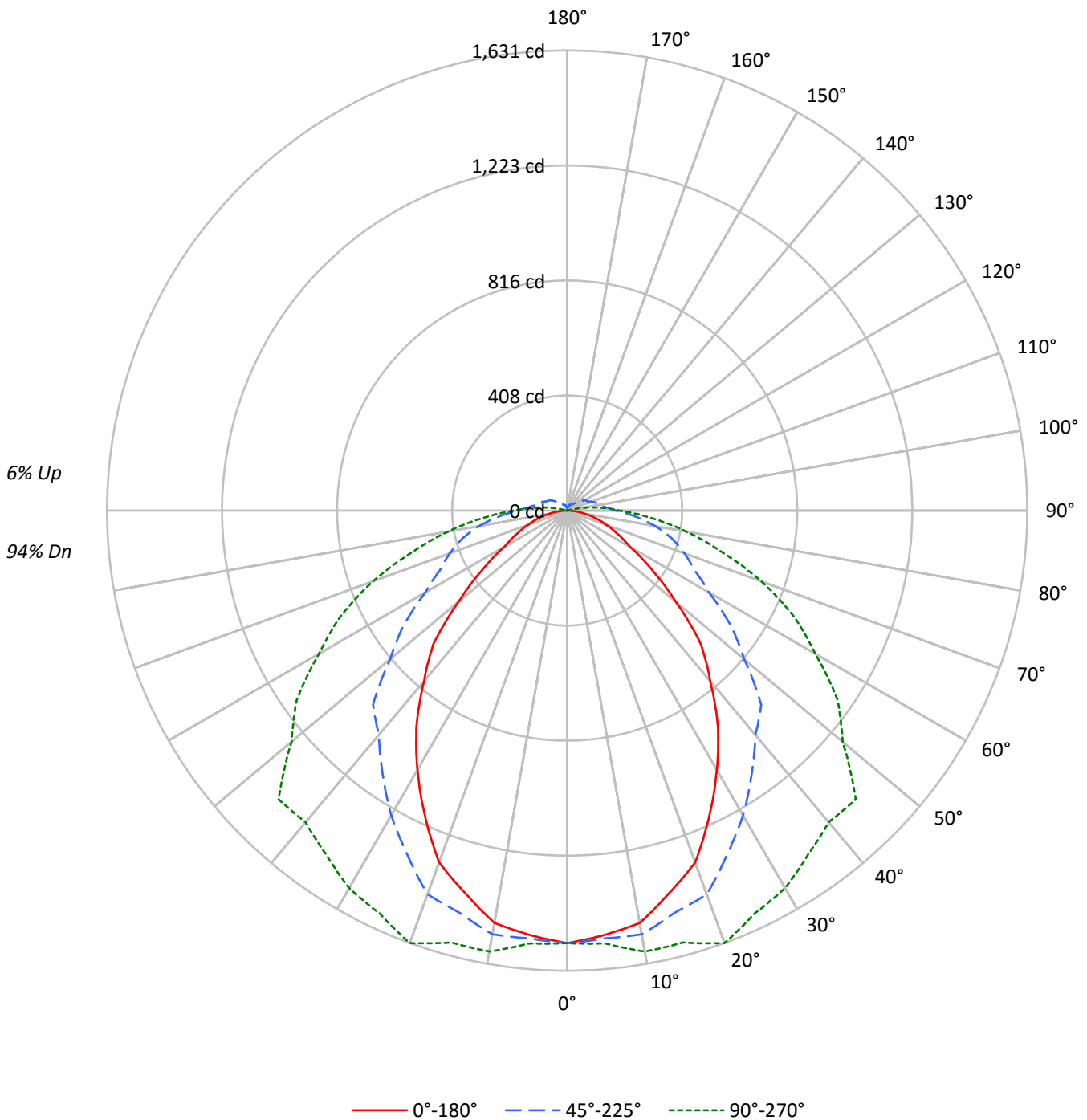
Summary

Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 4766.3 lumens
Efficiency: 80.8%
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.48 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.49' x L: 4' x H: 0.2')
CIE Type: Direct

Input Watts (W): 56
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	95	95	95	95	92	92	92	92	87	87	87		82	82	82		78	78	78	76
1	86	81	77	74	83	79	75	72	75	72	69		70	68	66		67	65	63	61
2	78	71	65	60	75	69	63	59	65	60	57		61	58	54		58	55	52	50
3	71	62	55	50	68	60	54	49	57	52	47		54	50	46		51	48	44	42
4	65	55	48	42	62	53	47	41	51	45	40		48	43	39		46	42	38	36
5	60	49	42	36	57	48	41	36	45	39	35		43	38	34		41	37	33	31
6	55	44	37	32	53	43	36	31	41	35	31		39	34	30		37	33	29	27
7	51	40	33	28	49	39	32	28	37	31	27		36	30	26		34	30	26	24
8	47	37	30	25	46	36	29	25	34	28	24		33	28	24		32	27	23	22
9	44	34	27	22	43	33	27	22	32	26	22		30	25	21		29	24	21	20
10	42	31	25	20	40	30	24	20	29	24	20		28	23	19		27	22	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8419	8419	8419
5°	8288	8161	8200
10°	8204	8049	8261
15°	7867	7722	8131
20°	7618	7573	8310
25°	7066	7079	8031
30°	6541	6672	7944
35°	6033	6241	7781
40°	5431	5863	7720
45°	4966	5722	8004
50°	4050	5062	7353
55°	3282	4636	7103
60°	2610	4095	6565
65°	2326	3826	6168
70°	2092	3773	5570
75°	1881	3718	4797
80°	1506	3556	4122
85°	1046	3268	3342



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	145.8	3.1	2.5
10°-20°	421.5	8.8	7.1
20°-30°	628.9	13.2	10.7
30°-40°	733.9	15.4	12.4
40°-50°	759.6	15.9	12.9
50°-60°	647.6	13.6	11.0
60°-70°	514.6	10.8	8.7
70°-80°	382.4	8.0	6.5
80°-90°	229.3	4.8	3.9
90°-100°	118.6	2.5	2.0
100°-110°	68.7	1.4	1.2
110°-120°	47.3	1.0	0.8
120°-130°	31.9	0.7	0.5
130°-140°	17.9	0.4	0.3
140°-150°	10.9	0.2	0.2
150°-160°	5.3	0.1	0.1
160°-170°	2.2	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	1196.1	25.1	20.3
0°-40°	1930.0	40.5	32.7
0°-60°	3337.2	70.0	56.6
0°-90°	4463.5	93.6	75.7
90°-120°	234.6	4.9	4.0
90°-150°	295.2	6.2	5.0
90°-180°	303.0	6.4	5.1
0°-180°	4766.3	100.0	80.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1510	1512	1522	1534	1540	143
15°	1402	1422	1475	1544	1585	396
25°	1193	1233	1343	1480	1575	550
35°	931	988	1140	1347	1489	580
45°	671	742	973	1260	1447	507
55°	367	434	706	993	1170	333
65°	198	242	497	791	886	198
75°	105	153	385	572	567	111
85°	26	78	242	348	298	29
90°	3	53	173	252	185	4
95°	0	43	136	190	115	1
105°	0	40	106	106	0	0
115°	0	33	78	75	0	0
125°	0	30	60	51	0	0
135°	0	21	36	30	0	0
145°	0	18	26	23	0	0
155°	0	0	20	20	0	0
165°	0	0	21	21	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1533	1533	1533	1533	1533
5°	1510	1512	1522	1534	1540
10°	1484	1495	1525	1565	1587
15°	1402	1422	1475	1544	1585
20°	1327	1360	1447	1559	1631
25°	1193	1233	1343	1480	1575
30°	1061	1111	1247	1424	1545
35°	931	988	1140	1347	1489
40°	789	854	1038	1280	1442
45°	671	742	973	1260	1447
50°	502	572	819	1098	1275
55°	367	434	706	993	1170
60°	258	308	580	873	1016
65°	198	242	497	791	886
70°	148	195	442	689	732
75°	105	153	385	572	567
80°	61	111	317	460	429
85°	26	78	242	348	298
90°	3	53	173	252	185
95°	0	43	136	190	115
100°	0	40	111	135	53
105°	0	40	106	106	0
110°	0	38	91	93	0
115°	0	33	78	75	0
120°	0	33	73	61	0
125°	0	30	60	51	0
130°	0	28	50	40	0
135°	0	21	36	30	0
140°	0	20	30	26	0
145°	0	18	26	23	0
150°	0	20	25	21	0
155°	0	0	20	20	0
160°	0	0	18	18	0
165°	0	0	21	21	0
170°	0	0	0	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)