

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. 9532.0

Luminaire Tested: **CATALOG NO. : 302DIP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 9532.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: CATALOG NO. : 302DIP
Description: 1/32W T8 LAMP 4'PENDANT MNT LUMINAIRE - BOTTOM LAMP ONLY
Light Source: -
LAMP CODE : F32T8/735/RS
Ballast/Driver: -

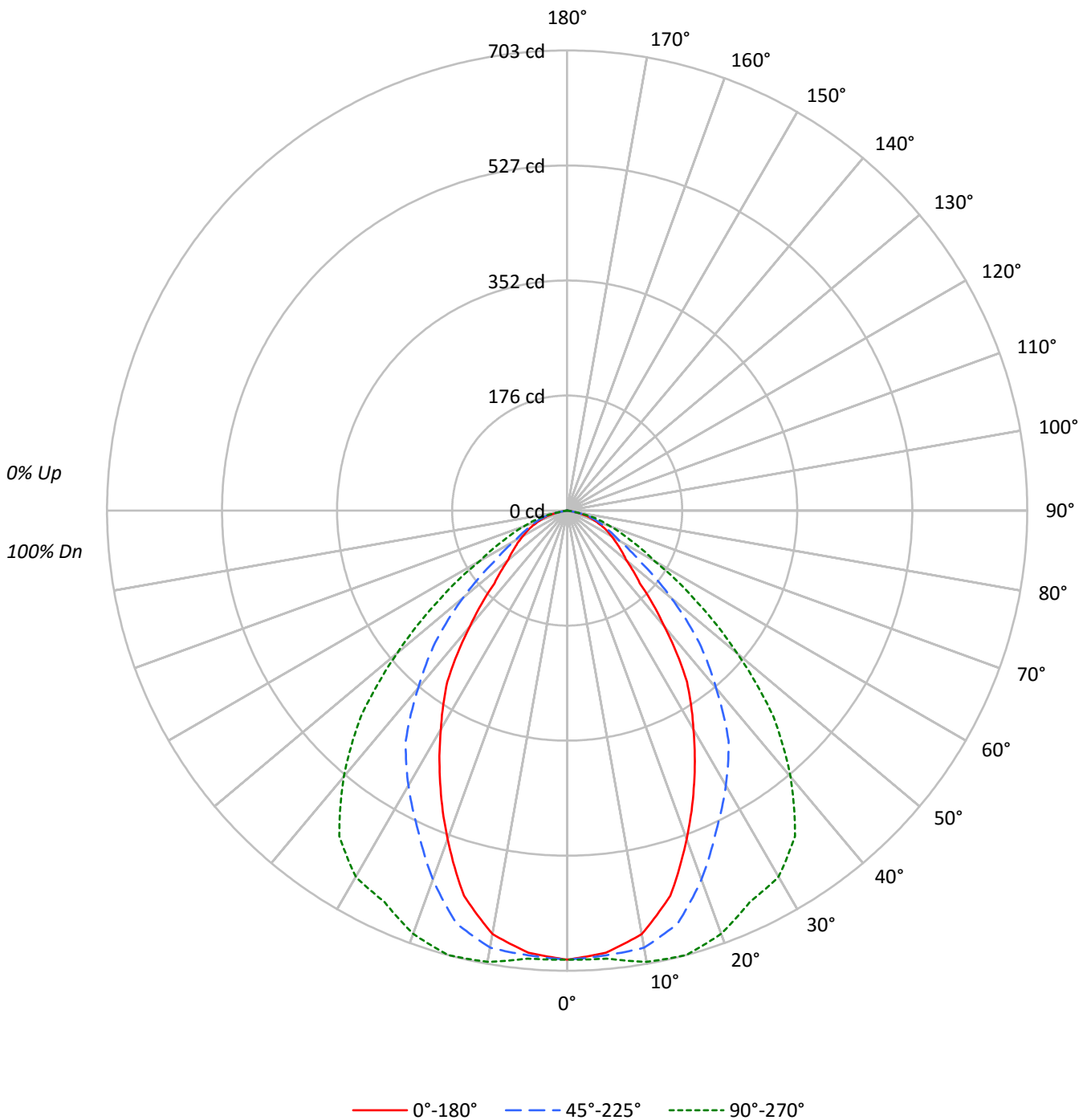
Summary

Lumens per Lamp: 2850 (1 lamp)
Luminaire Lumens: 1252.8 lumens
Efficiency: 44.0%
Efficacy: 40.4 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.37 / 1.17
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 4' x H: 0.17')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2216	2216	2216
5°	2191	2179	2189
10°	2139	2159	2218
15°	2014	2088	2231
20°	1808	1942	2204
25°	1605	1779	2151
30°	1406	1646	2160
35°	1222	1514	2099
40°	941	1305	1917
45°	689	1112	1697
50°	565	864	1375
55°	516	620	1051
60°	470	458	739
65°	435	380	567
70°	373	328	426
75°	324	266	307
80°	105	57	61
85°	25	13	11



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	65.0	5.2	2.3
10°-20°	183.0	14.6	6.4
20°-30°	254.2	20.3	8.9
30°-40°	274.6	21.9	9.6
40°-50°	222.9	17.8	7.8
50°-60°	139.0	11.1	4.9
60°-70°	76.6	6.1	2.7
70°-80°	34.8	2.8	1.2
80°-90°	2.8	0.2	0.1
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°	502.2	40.1	17.6
0°-40°	776.8	62.0	27.3
0°-60°	1138.7	90.9	40.0
0°-90°	1252.8	100.0	44.0
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°	1252.8	100.0	44.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	686	686	686	686	686	
5°	678	679	682	686	687	64
15°	609	620	653	688	703	169
25°	459	480	539	620	660	211
35°	319	347	430	542	607	196
45°	157	189	285	384	446	127
55°	97	102	137	202	240	87
65°	62	63	68	87	106	61
75°	30	33	35	38	43	29
85°	1	3	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	686	686	686	686	686
5°	678	679	682	686	687
10°	657	662	678	694	700
15°	609	620	653	688	703
20°	534	552	600	664	688
25°	459	480	539	620	660
30°	386	411	485	590	646
35°	319	347	430	542	607
40°	231	263	354	464	531
45°	157	189	285	384	446
50°	118	129	207	287	339
55°	97	102	137	202	240
60°	78	81	92	132	154
65°	62	63	68	87	106
70°	44	47	51	59	70
75°	30	33	35	38	43
80°	7	9	6	7	7
85°	1	3	1	1	1
90°	0	0	0	0	0

(END OF REPORT)