

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. 9533.0

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 9533.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: CATALOG NO. : 302DIP
Description: 2/32W T8 LAMP 4'PENDANT MNT LUMINAIRE - TOP LAMPS ONLY
Light Source: -
LAMP CODE : F32T8/735/RS
Ballast/Driver: -

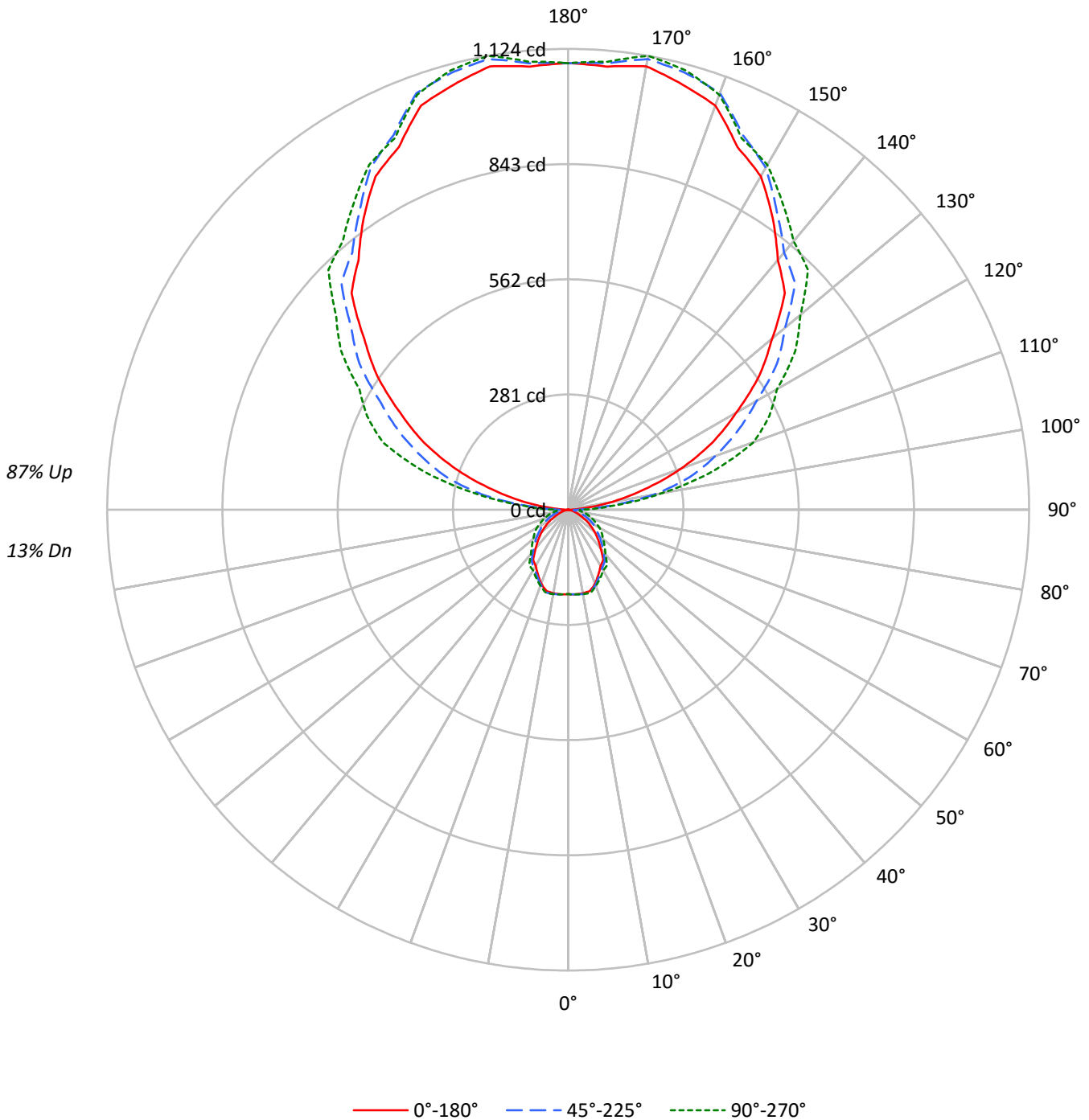
Summary

Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 3969.0 lumens
Efficiency: 69.6%
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 4' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 58
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					
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
RCR																						
0	68	68	68	68	60	60	60	60	44	44	44	29	29	29	16	16	16					9
1	62	59	57	55	54	52	50	48	38	37	36	25	25	24	14	13	13					8
2	57	52	48	45	49	45	42	39	33	31	29	22	21	20	12	11	11					6
3	52	46	41	37	45	40	36	33	29	27	25	20	18	17	11	10	9					5
4	47	40	35	31	41	35	31	28	26	23	21	17	16	14	10	9	8					5
5	43	36	30	26	38	31	27	24	23	20	18	16	14	12	9	8	7					4
6	40	32	27	23	35	28	24	20	21	18	15	14	12	11	8	7	6					4
7	37	29	23	20	32	25	21	18	19	16	14	13	11	9	7	6	5					3
8	34	26	21	17	29	23	18	15	17	14	12	12	10	8	6	6	5					3
9	31	23	19	15	27	21	16	14	15	13	10	11	9	7	6	5	4					3
10	29	21	17	13	25	19	15	12	14	11	9	10	8	7	5	5	4					2

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	475	475	475
5°	477	474	473
10°	481	478	477
15°	484	482	483
20°	464	457	462
25°	434	429	439
30°	411	409	421
35°	408	400	422
40°	358	361	379
45°	322	332	357
50°	287	304	340
55°	247	278	334
60°	202	267	325
65°	150	234	309
70°	121	208	295
75°	85	180	290
80°	43	153	279
85°	18	149	281



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	19.8	0.5	0.3
10°-20°	57.9	1.5	1.0
20°-30°	82.7	2.1	1.5
30°-40°	95.3	2.4	1.7
40°-50°	88.5	2.2	1.6
50°-60°	74.0	1.9	1.3
60°-70°	54.0	1.4	0.9
70°-80°	32.2	0.8	0.6
80°-90°	17.9	0.5	0.3
90°-100°	101.5	2.6	1.8
100°-110°	304.1	7.7	5.3
110°-120°	452.5	11.4	7.9
120°-130°	549.5	13.8	9.6
130°-140°	597.3	15.0	10.5
140°-150°	560.8	14.1	9.8
150°-160°	465.8	11.7	8.2
160°-170°	310.1	7.8	5.4
170°-180°	105.0	2.6	1.8
0°-30°	160.4	4.0	2.8
0°-40°	255.8	6.4	4.5
0°-60°	418.3	10.5	7.3
0°-90°	522.4	13.2	9.2
90°-120°	858.1	21.6	15.1
90°-150°	2565.7	64.6	45.0
90°-180°	3447.0	86.8	60.5
0°-180°	3969.0	100.0	69.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	206	206	206	206	206	
5°	207	207	207	207	207	20
15°	205	207	209	209	210	57
25°	174	176	179	182	184	80
35°	149	150	155	161	165	91
45°	103	106	115	122	125	80
55°	65	69	82	95	100	58
65°	30	39	55	69	74	31
75°	11	15	30	44	50	12
85°	1	6	14	23	28	2
90°	0	7	17	26	30	4
95°	31	71	92	103	107	50
105°	193	217	307	358	368	207
115°	388	396	457	517	541	381
125°	568	571	622	660	676	505
135°	747	763	782	816	827	568
145°	869	896	887	906	912	544
155°	976	1003	1008	1000	1000	455
165°	1074	1089	1103	1108	1109	304
175°	1085	1087	1093	1095	1097	104
180°	1089	1089	1089	1089	1089	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	206	206	206	206	206
5°	207	207	207	207	207
10°	207	207	209	209	209
15°	205	207	209	209	210
20°	192	192	195	197	198
25°	174	176	179	182	184
30°	158	161	165	169	171
35°	149	150	155	161	165
40°	123	127	133	139	141
45°	103	106	115	122	125
50°	84	87	98	107	111
55°	65	69	82	95	100
60°	47	55	71	84	88
65°	30	39	55	69	74
70°	20	26	42	57	61
75°	11	15	30	44	50
80°	4	9	20	33	38
85°	1	6	14	23	28
90°	0	7	17	26	30
95°	31	71	92	103	107
100°	106	147	211	228	233
105°	193	217	307	358	368
110°	292	306	381	455	481
115°	388	396	457	517	541
120°	473	477	530	571	588
125°	568	571	622	660	676
130°	649	652	690	725	739
135°	747	763	782	816	827
140°	795	817	819	846	855
145°	869	896	887	906	912
150°	939	968	963	965	971
155°	976	1003	1008	1000	1000
160°	1049	1070	1081	1079	1077
165°	1074	1089	1103	1108	1109
170°	1098	1104	1116	1124	1124
175°	1085	1087	1093	1095	1097
180°	1089	1089	1089	1089	1089

(END OF REPORT)