

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. 9534.0

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 9534.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: CATALOG NO. : 302DIP
Description: 3/32W T8 LAMP 4'PENDANT MNT LUMINAIRE
Light Source: -
LAMP CODE : F32T8/735/RS
Ballast/Driver: -

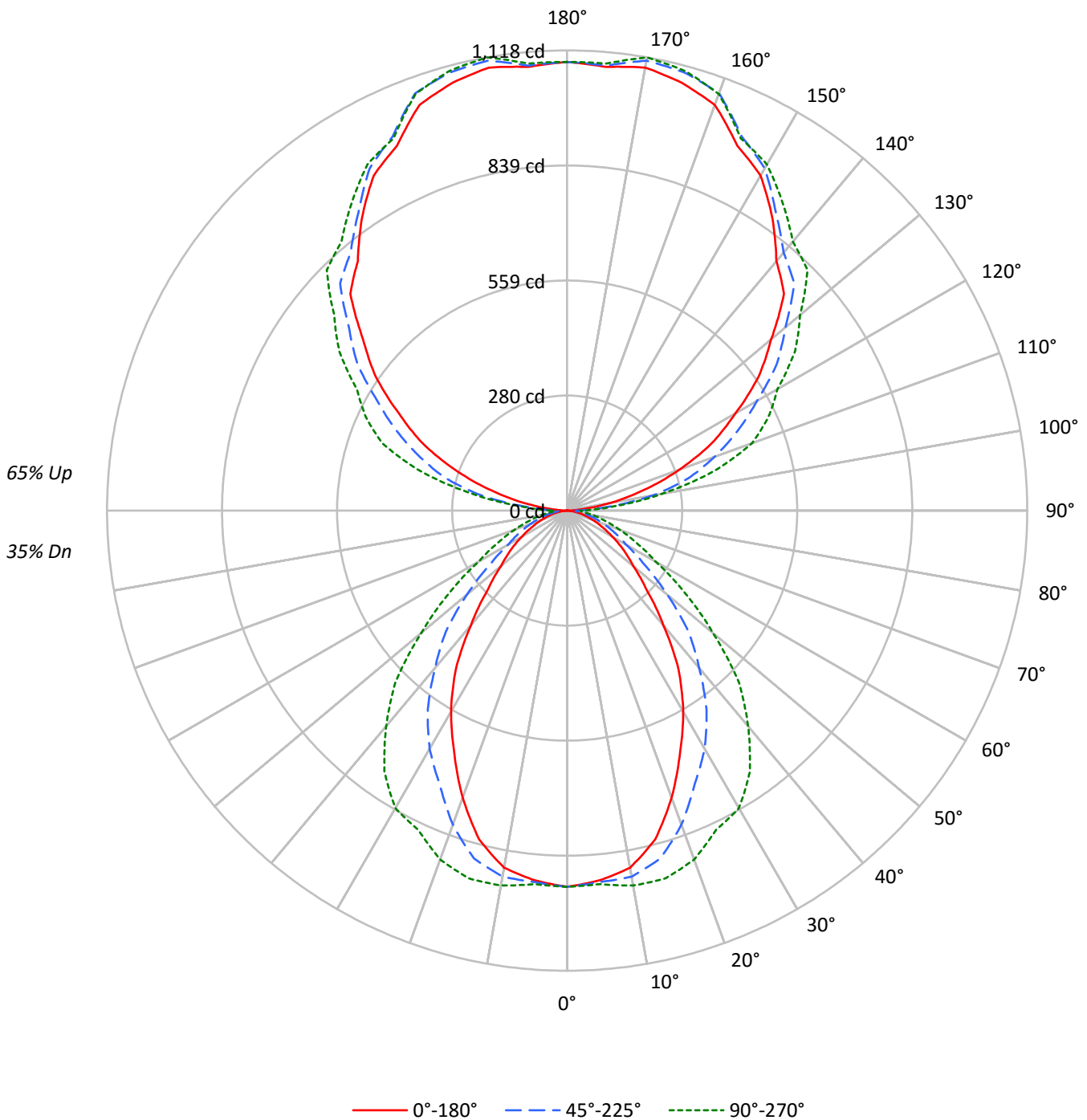
Summary

Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 5271.5 lumens
Efficiency: 61.7%
Efficacy: 59.9 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 1.33 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 1.17' x L: 4' x H: 0.17')
CIE Type: Semi-Indirect

Input Watts (W): 88
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	64	64	64	64	58	58	58	58	46	46	46	36	36	36	26	26	26	21
1	58	56	54	52	53	51	49	47	41	39	38	32	31	30	23	23	22	19
2	53	49	46	43	48	45	42	39	36	34	32	28	27	26	21	20	19	16
3	49	43	39	36	44	40	36	33	32	30	27	25	23	22	19	18	17	14
4	45	39	34	31	40	35	31	28	29	26	24	23	21	19	17	16	15	12
5	41	35	30	26	37	31	27	24	26	23	21	20	18	17	15	14	13	11
6	38	31	26	23	34	28	24	21	23	20	18	19	16	15	14	13	12	10
7	35	28	23	20	32	26	22	19	21	18	16	17	15	13	13	12	10	9
8	33	25	21	18	30	23	19	17	19	16	14	16	13	12	12	11	9	8
9	30	23	19	16	28	21	17	15	18	15	13	14	12	11	11	10	9	7
10	28	21	17	14	26	20	16	13	16	13	11	13	11	10	10	9	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2108	2108	2108
5°	2080	2073	2083
10°	2048	2067	2113
15°	1952	2018	2127
20°	1794	1902	2104
25°	1620	1758	2042
30°	1466	1654	2054
35°	1291	1522	1980
40°	1059	1354	1838
45°	855	1203	1683
50°	718	984	1416
55°	634	776	1168
60°	546	620	917
65°	471	541	777
70°	399	466	653
75°	324	395	546
80°	236	320	462
85°	125	244	371



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	86.5	1.6	1.0
10°-20°	245.1	4.6	2.9
20°-30°	344.4	6.5	4.0
30°-40°	375.9	7.1	4.4
40°-50°	322.1	6.1	3.8
50°-60°	219.6	4.2	2.6
60°-70°	133.9	2.5	1.6
70°-80°	72.0	1.4	0.8
80°-90°	29.4	0.6	0.3
90°-100°	102.6	1.9	1.2
100°-110°	303.1	5.7	3.5
110°-120°	451.8	8.6	5.3
120°-130°	550.0	10.4	6.4
130°-140°	596.2	11.3	7.0
140°-150°	559.9	10.6	6.5
150°-160°	465.1	8.8	5.4
160°-170°	309.6	5.9	3.6
170°-180°	104.5	2.0	1.2
0°-30°	676.0	12.8	7.9
0°-40°	1051.8	20.0	12.3
0°-60°	1593.6	30.2	18.6
0°-90°	1828.8	34.7	21.4
90°-120°	857.4	16.3	10.0
90°-150°	2563.5	48.6	30.0
90°-180°	3443.0	65.3	40.3
0°-180°	5271.5	100.0	61.7

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	902	903	906	911	911	85
15°	827	840	875	911	925	231
25°	649	671	733	816	856	299
35°	472	502	590	707	774	292
45°	273	309	417	526	590	216
55°	167	176	229	306	350	150
65°	94	105	127	162	186	94
75°	42	48	66	85	94	45
85°	7	14	23	34	37	9
90°	0	9	20	30	31	5
95°	31	72	93	104	109	49
105°	192	216	306	357	368	205
115°	388	396	456	515	540	381
125°	568	571	622	662	676	505
135°	745	761	780	813	826	566
145°	869	894	884	905	913	543
155°	978	1001	1003	998	998	455
165°	1076	1088	1102	1106	1106	304
175°	1082	1083	1085	1088	1090	104
180°	1090	1090	1090	1090	1090	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914	914	914	914	914
5°	902	903	906	911	911
10°	881	887	903	921	925
15°	827	840	875	911	925
20°	742	759	812	878	902
25°	649	671	733	816	856
30°	564	590	668	780	835
35°	472	502	590	707	774
40°	364	399	499	614	684
45°	273	309	417	526	590
50°	210	225	317	407	462
55°	167	176	229	306	350
60°	127	139	165	219	248
65°	94	105	127	162	186
70°	66	74	94	118	135
75°	42	48	66	85	94
80°	22	30	42	56	63
85°	7	14	23	34	37
90°	0	9	20	30	31
95°	31	72	93	104	109
100°	105	145	211	229	233
105°	192	216	306	357	368
110°	290	304	380	453	478
115°	388	396	456	515	540
120°	472	477	532	571	590
125°	568	571	622	662	676
130°	647	652	692	726	739
135°	745	761	780	813	826
140°	791	815	818	843	853
145°	869	894	884	905	913
150°	940	968	960	966	971
155°	978	1001	1003	998	998
160°	1049	1069	1079	1079	1077
165°	1076	1088	1102	1106	1106
170°	1093	1099	1110	1118	1118
175°	1082	1083	1085	1088	1090
180°	1090	1090	1090	1090	1090

(END OF REPORT)