

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: 8496.0

Luminaire Tested: **17IP/3T8-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 8496.0  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: 17IP/3T8-4  
Description: 3/32W T8 LAMP 4' PENDANT MNT INDIRECT LUMINAIRE  
SPECULAR REFL IN OPEN TOP w/OVERLAY & PERF METAL SIDES  
Light Source: F32T8/735/RS  
Ballast/Driver: ENERGY SAVINGS #ES-2-T8-32-120-A & #ES-1-T8-32-120-A

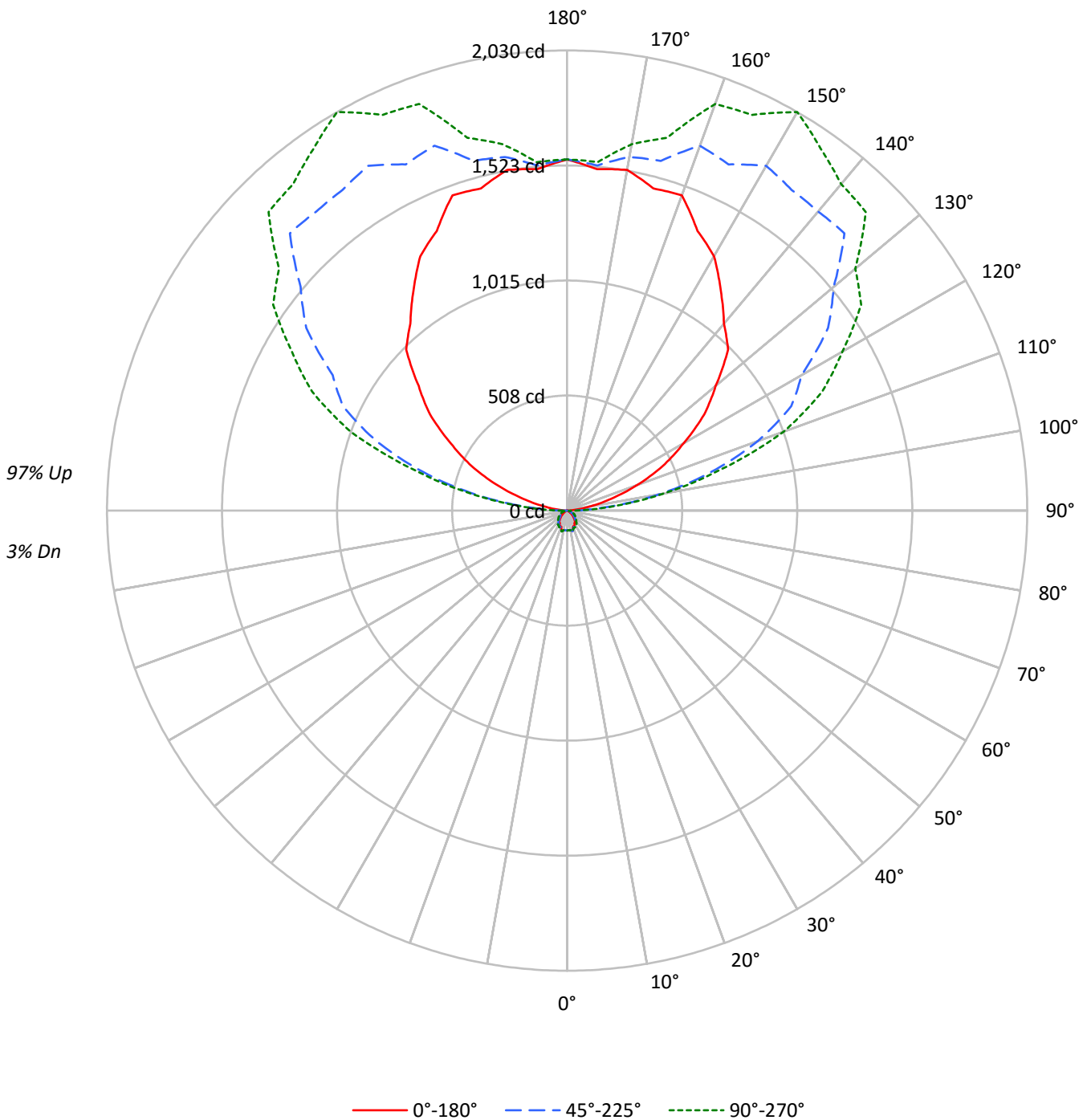
**Summary**

Lumens per Lamp: 2850 (3 lamps)  
Luminaire Lumens: 6774.8 lumens  
Efficiency: 79.2%  
Efficacy: 77.0 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.29 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 4.09' x H: 0.17')  
CIE Type: Indirect

Input Watts (W): 88  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	76	76	76	76	65	65	65	65	45	45	45	27	27	27	10	10	10	3
1	69	66	63	61	59	57	55	52	40	38	37	24	23	22	9	9	9	2
2	63	58	53	49	54	50	46	43	35	32	31	21	20	19	8	8	7	2
3	57	50	45	41	49	44	39	36	30	28	26	18	17	16	7	7	6	2
4	52	45	39	34	45	38	34	30	27	24	22	16	15	13	6	6	5	1
5	48	39	34	29	41	34	29	26	24	21	18	14	13	11	6	5	5	1
6	44	35	29	25	38	30	25	22	21	18	16	13	11	10	5	4	4	1
7	40	31	26	22	35	27	22	19	19	16	14	12	10	9	5	4	3	1
8	37	28	23	19	32	25	20	17	17	14	12	11	9	7	4	4	3	1
9	35	26	20	16	30	22	18	14	16	13	11	10	8	7	4	3	3	1
10	32	23	18	15	27	20	16	13	14	11	9	9	7	6	3	3	2	1

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	278	278	278
5°	275	272	271
10°	277	274	272
15°	301	294	298
20°	252	250	254
25°	256	255	261
30°	231	236	245
35°	229	234	247
40°	195	202	219
45°	167	187	208
50°	140	171	198
55°	114	155	188
60°	94	141	178
65°	69	115	167
70°	50	94	143
75°	11	75	126
80°	0	55	102
85°	0	37	77



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	8.3	0.1	0.1
10°-20°	25.1	0.4	0.3
20°-30°	35.5	0.5	0.4
30°-40°	40.9	0.6	0.5
40°-50°	37.6	0.6	0.4
50°-60°	30.9	0.5	0.4
60°-70°	21.2	0.3	0.2
70°-80°	10.7	0.2	0.1
80°-90°	6.8	0.1	0.1
90°-100°	184.1	2.7	2.2
100°-110°	613.3	9.1	7.2
110°-120°	981.5	14.5	11.5
120°-130°	1160.5	17.1	13.6
130°-140°	1194.8	17.6	14.0
140°-150°	1034.8	15.3	12.1
150°-160°	780.6	11.5	9.1
160°-170°	459.9	6.8	5.4
170°-180°	148.1	2.2	1.7
0°-30°	69.0	1.0	0.8
0°-40°	109.8	1.6	1.3
0°-60°	178.3	2.6	2.1
0°-90°	217.0	3.2	2.5
90°-120°	1779.0	26.3	20.8
90°-150°	5169.2	76.3	60.5
90°-180°	6558.0	96.8	76.7
0°-180°	6774.8	100.0	79.2

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	88	88	88	88	88	
5°	87	87	87	87	87	8
15°	93	94	94	96	96	25
25°	75	76	79	82	82	34
35°	61	62	68	71	73	37
45°	39	42	49	55	56	30
55°	22	27	35	42	44	20
65°	10	13	21	29	32	10
75°	1	4	10	16	18	2
85°	0	0	3	7	7	0
90°	0	7	13	19	22	4
95°	27	145	169	185	188	45
105°	199	500	659	696	704	216
115°	465	868	1091	1209	1241	457
125°	738	1174	1405	1515	1583	654
135°	1004	1344	1730	1832	1863	761
145°	1182	1376	1727	1911	1950	742
155°	1361	1468	1685	1863	1926	634
165°	1471	1511	1597	1670	1702	421
175°	1512	1515	1528	1538	1543	145
180°	1549	1549	1549	1549	1549	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	88	88	88	88	88
5°	87	87	87	87	87
10°	87	87	88	88	88
15°	93	94	94	96	96
20°	76	78	79	81	81
25°	75	76	79	82	82
30°	65	67	71	75	75
35°	61	62	68	71	73
40°	49	52	56	62	62
45°	39	42	49	55	56
50°	30	35	42	49	50
55°	22	27	35	42	44
60°	16	21	29	36	38
65°	10	13	21	29	32
70°	6	9	15	22	24
75°	1	4	10	16	18
80°	0	1	6	10	12
85°	0	0	3	7	7
90°	0	7	13	19	22
95°	27	145	169	185	188
100°	96	338	411	430	431
105°	199	500	659	696	704
110°	327	682	895	993	1016
115°	465	868	1091	1209	1241
120°	592	1012	1194	1362	1402
125°	738	1174	1405	1515	1583
130°	855	1237	1535	1627	1659
135°	1004	1344	1730	1832	1863
140°	1076	1333	1722	1849	1880
145°	1182	1376	1727	1911	1950
150°	1296	1453	1756	1972	2030
155°	1361	1468	1685	1863	1926
160°	1480	1555	1713	1854	1909
165°	1471	1511	1597	1670	1702
170°	1526	1546	1584	1623	1641
175°	1512	1515	1528	1538	1543
180°	1549	1549	1549	1549	1549

(END OF REPORT)