

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: 168P154

Luminaire Tested: **NEO-RAY 264-3T8 (Center Lamp Off)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 168P154  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: NEO-RAY 264-3T8 (Center Lamp Off)  
Description: NEO-RAY RECESSED AMBIENT LENS TROFFER w/Center  
Lamp Off.  
Light Source: Two - FO32/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: TRIAD B232I120RH-A Electronic - L.O.B.F. = UNK

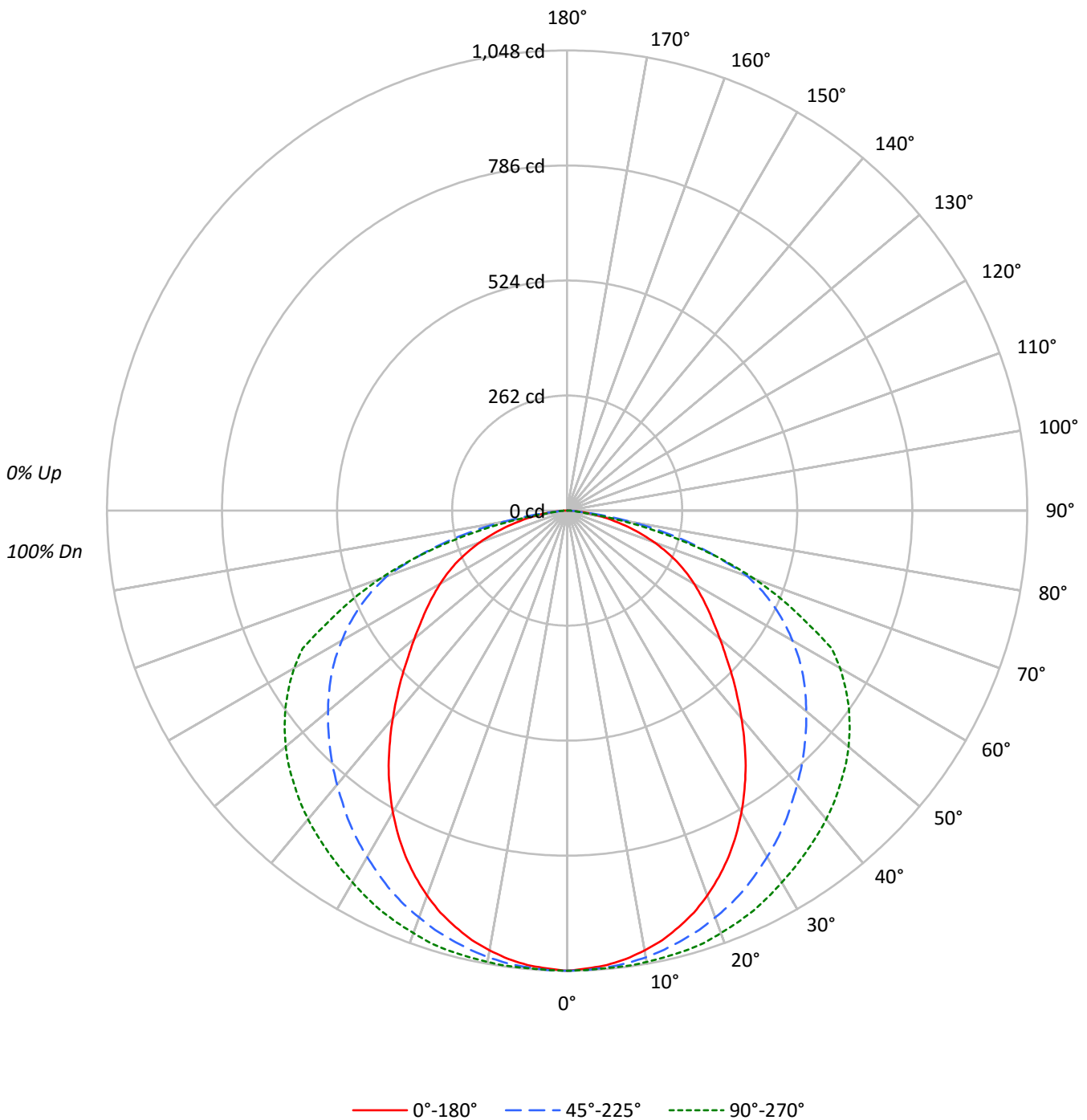
**Summary**

Lumens per Lamp: 2800 (2 lamps)  
Luminaire Lumens: 3262.2 lumens  
Efficiency: 58.3%  
Efficacy: 55.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.39 / 1.45  
Luminous Opening: Rectangular (W 1.91' x L: 3.93' x H: 0')  
CIE Type: Direct

Input Watts (W): 59  
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	69	69	69	69	68	68	68	68	65	65	65	62	62	62	59	59	59	58
1	63	60	58	55	62	59	57	54	56	55	53	54	53	51	52	51	50	48
2	57	52	48	45	56	51	47	44	49	46	43	47	44	42	45	43	41	40
3	52	45	41	37	50	45	40	36	43	39	36	41	38	35	40	37	34	33
4	47	40	35	31	46	39	34	30	38	33	30	36	33	30	35	32	29	28
5	43	36	30	26	42	35	30	26	34	29	26	33	29	25	31	28	25	24
6	40	32	27	23	39	31	26	23	30	26	22	29	25	22	28	25	22	21
7	37	29	24	20	36	28	23	20	28	23	20	27	23	20	26	22	19	18
8	34	26	21	18	33	26	21	18	25	21	18	24	20	17	24	20	17	16
9	32	24	19	16	31	24	19	16	23	19	16	22	19	16	22	18	16	15
10	30	22	18	14	29	22	17	14	21	17	14	21	17	14	20	17	14	13

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

	0°	45°	90°
0°	1503	1503	1503
5°	1496	1503	1506
10°	1481	1504	1520
15°	1458	1504	1541
20°	1424	1505	1563
25°	1377	1508	1590
30°	1315	1508	1619
35°	1241	1516	1661
40°	1157	1526	1718
45°	1077	1549	1785
50°	1013	1586	1867
55°	978	1640	1958
60°	958	1701	2059
65°	936	1771	2036
70°	885	1832	1899
75°	792	1651	1557
80°	669	1222	908
85°	510	395	313



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	99.2	3.0	1.8
10°-20°	285.6	8.8	5.1
20°-30°	435.3	13.3	7.8
30°-40°	530.8	16.3	9.5
40°-50°	570.3	17.5	10.2
50°-60°	557.3	17.1	10.0
60°-70°	472.4	14.5	8.4
70°-80°	266.4	8.2	4.8
80°-90°	44.7	1.4	0.8
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°	820.2	25.1	14.6
0°-40°	1351.0	41.4	24.1
0°-60°	2478.6	76.0	44.3
0°-90°	3262.2	100.0	58.3
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°	3262.2	100.0	58.3

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1039	1040	1044	1048	1046	98
15°	982	991	1013	1033	1038	277
25°	870	896	953	992	1005	400
35°	709	769	866	927	949	442
45°	531	632	764	851	880	411
55°	391	499	656	751	783	351
65°	276	365	522	609	600	272
75°	143	213	298	293	281	152
85°	31	40	24	20	19	36
90°	0	0	0	0	0	2
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	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°	1048	1048	1048	1048	1048
2.5°	1044	1044	1047	1049	1047
5°	1039	1040	1044	1048	1046
7.5°	1030	1032	1040	1045	1046
10°	1017	1022	1033	1042	1044
12.5°	1002	1008	1024	1038	1041
15°	982	991	1013	1033	1038
17.5°	960	972	1001	1026	1033
20°	933	949	986	1016	1024
22.5°	903	924	971	1005	1015
25°	870	896	953	992	1005
27.5°	833	866	932	978	992
30°	794	835	911	962	978
32.5°	752	802	889	945	964
35°	709	769	866	927	949
37.5°	663	735	840	910	934
40°	618	700	815	891	918
42.5°	573	666	790	871	900
45°	531	632	764	851	880
47.5°	490	598	738	829	860
50°	454	565	711	805	837
52.5°	421	532	684	780	811
55°	391	499	656	751	783
57.5°	362	466	626	721	752
60°	334	432	593	687	718
62.5°	306	398	559	651	679
65°	276	365	522	609	600
67.5°	244	328	482	526	530
70°	211	291	437	455	453
72.5°	177	252	366	377	371
75°	143	213	298	293	281
77.5°	110	173	224	206	192
80°	81	129	148	123	110
82.5°	54	82	77	51	40
85°	31	40	24	20	19
87.5°	13	12	11	10	10
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)