

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: 168P153

Luminaire Tested: **NEO-RAY 264-3T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 168P153
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: NEO-RAY 264-3T8
Description: NEO-RAY RECESSED AMBIENT LENS TROFFER
Light Source: Three - F032/35K - 2800 Lumens ea. - 32 Watts ea.
Ballast/Driver: TRIAD B232I120RH-A Electronic - L.O.B.F. = UNK

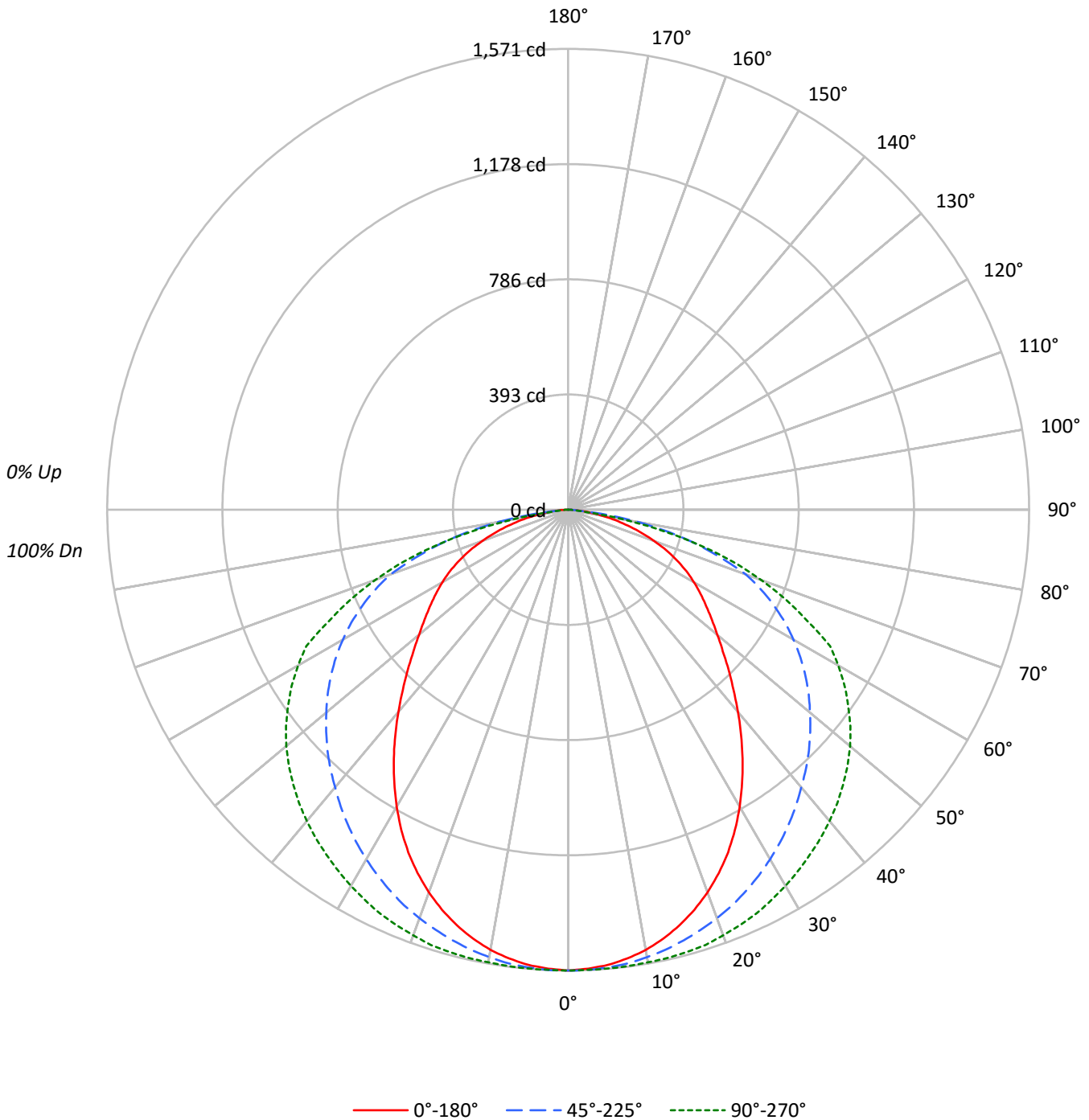
Summary

Lumens per Lamp: 2800 (3 lamps)
Luminaire Lumens: 4900.3 lumens
Efficiency: 58.3%
Efficacy: 57.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.41 / 1.46
Luminous Opening: Rectangular (W 1.91' x L: 3.93' x H: 0')
CIE Type: Direct

Input Watts (W): 86
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	60	60	60	58
1	63	60	58	55	62	59	57	55	57	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	34	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°	2253	2253	2253
5°	2243	2254	2260
10°	2219	2256	2282
15°	2178	2257	2317
20°	2118	2262	2356
25°	2039	2269	2403
30°	1936	2278	2452
35°	1814	2293	2514
40°	1685	2314	2594
45°	1568	2352	2687
50°	1481	2400	2798
55°	1438	2468	2913
60°	1420	2544	3049
65°	1388	2626	3057
70°	1308	2700	2935
75°	1169	2504	2549
80°	983	1982	1594
85°	740	592	444



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	148.8	3.0	1.8
10°-20°	428.4	8.7	5.1
20°-30°	653.5	13.3	7.8
30°-40°	798.0	16.3	9.5
40°-50°	857.4	17.5	10.2
50°-60°	832.9	17.0	9.9
60°-70°	702.4	14.3	8.4
70°-80°	408.8	8.3	4.9
80°-90°	70.0	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°	1230.8	25.1	14.7
0°-40°	2028.7	41.4	24.2
0°-60°	3719.0	75.9	44.3
0°-90°	4900.3	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°	4900.3	100.0	58.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1558	1559	1566	1572	1570	148
15°	1467	1482	1520	1554	1561	413
25°	1289	1336	1434	1498	1519	592
35°	1036	1147	1310	1404	1436	647
45°	773	948	1160	1284	1325	598
55°	575	747	987	1121	1165	516
65°	409	537	774	901	901	403
75°	211	307	452	469	460	225
85°	45	61	36	28	27	52
90°	0	0	0	0	0	3
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°	1571	1571	1571	1571	1571
2.5°	1566	1566	1571	1573	1570
5°	1558	1559	1566	1572	1570
7.5°	1543	1547	1560	1569	1569
10°	1524	1530	1549	1564	1567
12.5°	1498	1508	1536	1559	1565
15°	1467	1482	1520	1554	1561
17.5°	1430	1452	1502	1545	1556
20°	1388	1416	1482	1531	1544
22.5°	1341	1378	1460	1515	1532
25°	1289	1336	1434	1498	1519
27.5°	1231	1291	1406	1478	1500
30°	1169	1244	1376	1455	1481
32.5°	1103	1196	1344	1430	1459
35°	1036	1147	1310	1404	1436
37.5°	968	1097	1274	1377	1412
40°	900	1047	1236	1348	1386
42.5°	834	997	1199	1317	1357
45°	773	948	1160	1284	1325
47.5°	715	898	1119	1248	1291
50°	664	848	1076	1209	1254
52.5°	617	798	1033	1168	1212
55°	575	747	987	1121	1165
57.5°	535	696	939	1073	1117
60°	495	644	887	1020	1063
62.5°	454	591	833	963	1006
65°	409	537	774	901	901
67.5°	362	481	712	791	805
70°	312	424	644	693	700
72.5°	262	366	547	586	586
75°	211	307	452	469	460
77.5°	164	249	350	342	327
80°	119	187	240	213	193
82.5°	78	121	129	86	65
85°	45	61	36	28	27
87.5°	19	17	15	15	14
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)