

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. 14773.0

Luminaire Tested: **234ISL-3T8 - ALL ON**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 14773.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 234ISL-3T8 - ALL ON
Description: 3/32W T8 LAMP 2x4'DIRECT RECESSED LUMINAIRE w/WHITE REFL
PERF DIFFUSER/OVERLAY w/OPEN CENTER 3.6"WHITE BLADE BAFFLE
SYLVANIA #QTP1x32T8/UNVPSN-TC, QTP2x32T8/UNVPSN-TC WATTS=84
Light Source: -
F32T8/835/RS
Ballast/Driver: -

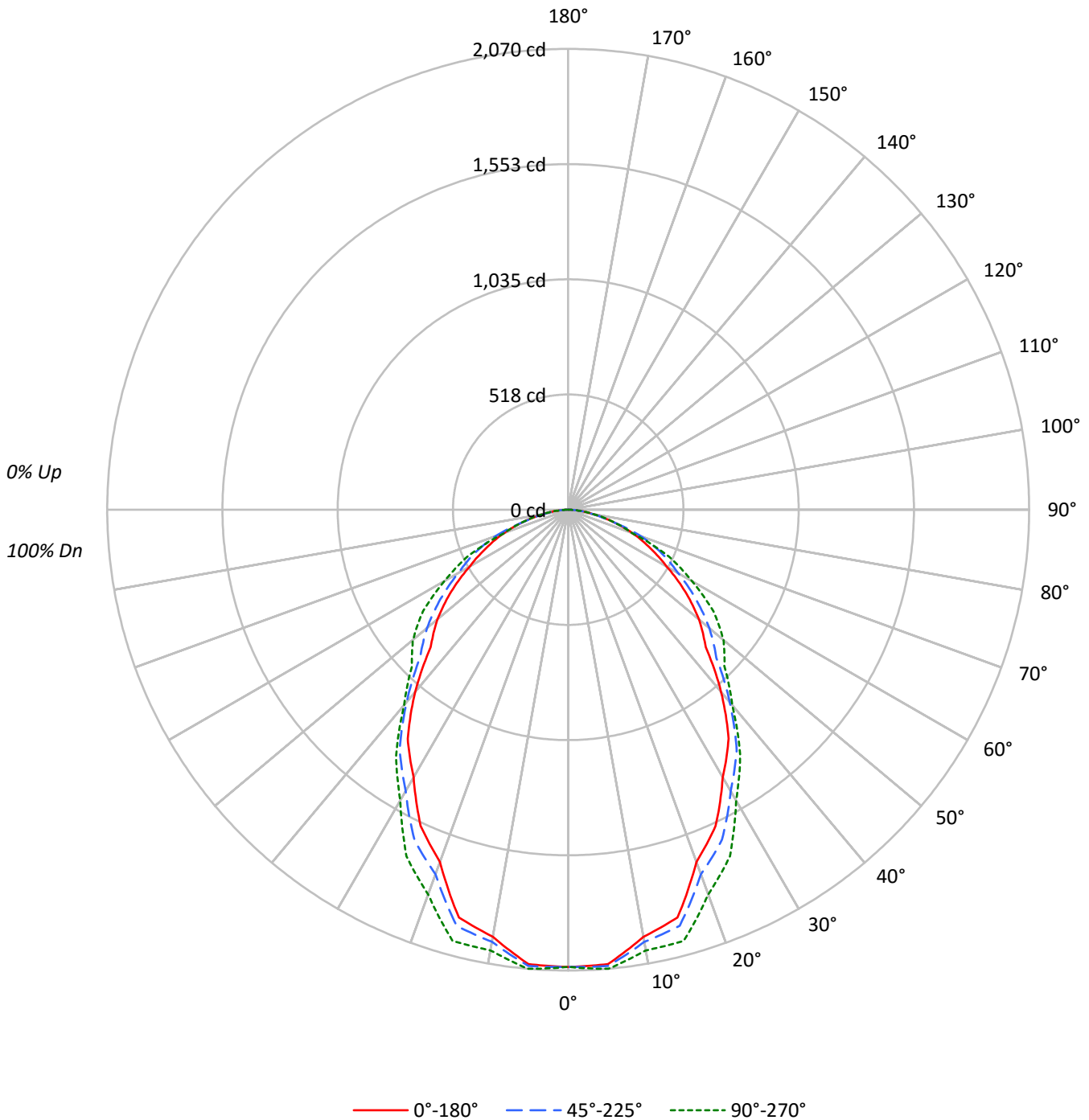
Summary

Lumens per Lamp: 2950 (3 lamps)
Luminaire Lumens: 4386.1 lumens
Efficiency: 49.6%
Efficacy: 52.2 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.12 / 1.18
Luminous Opening: Rectangular (W 1.94' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 84
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	59	59	59	59	58	58	58	58	55	55	55	53	53	53	51	51	51	50						50													
1	54	52	50	48	53	51	49	48	49	48	46	47	46	45	45	44	43	42						42													
2	50	46	43	40	49	45	42	40	43	41	39	42	40	38	40	39	37	36						36													
3	46	41	37	34	45	40	37	34	39	36	33	37	35	33	36	34	32	31						31													
4	42	36	32	29	41	36	32	29	35	31	29	33	31	28	32	30	28	27						27													
5	39	33	29	26	38	32	28	25	31	28	25	30	27	25	29	27	25	24						24													
6	36	30	26	23	35	29	25	22	28	25	22	28	24	22	27	24	22	21						21													
7	34	27	23	20	33	27	23	20	26	23	20	25	22	20	25	22	20	19						19													
8	31	25	21	18	31	25	21	18	24	20	18	23	20	18	23	20	18	17						17													
9	29	23	19	16	29	23	19	16	22	19	16	22	19	16	21	18	16	15						15													
10	28	21	18	15	27	21	17	15	21	17	15	20	17	15	20	17	15	14						14													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2912	2912	2912
5°	2916	2928	2946
10°	2805	2838	2894
15°	2783	2841	2943
20°	2541	2630	2775
25°	2452	2558	2688
30°	2273	2389	2469
35°	2174	2283	2332
40°	1977	2088	2121
45°	1751	1887	1989
50°	1692	1824	2007
55°	1585	1730	1968
60°	1449	1619	1818
65°	1359	1557	1681
70°	1269	1443	1269
75°	1123	1085	1129
80°	915	890	955
85°	765	732	765



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	193.4	4.4	2.2
10°-20°	536.6	12.2	6.1
20°-30°	745.7	17.0	8.4
30°-40°	811.0	18.5	9.2
40°-50°	736.2	16.8	8.3
50°-60°	631.4	14.4	7.1
60°-70°	450.4	10.3	5.1
70°-80°	225.5	5.1	2.5
80°-90°	56.0	1.3	0.6
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°	1475.7	33.6	16.7
0°-40°	2286.7	52.1	25.8
0°-60°	3654.3	83.3	41.3
0°-90°	4386.1	100.0	49.6
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°	4386.1	100.0	49.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2054	2054	2054	2054	2054	
5°	2049	2051	2057	2065	2070	192
15°	1896	1904	1935	1977	2005	523
25°	1567	1583	1635	1684	1718	715
35°	1256	1282	1319	1331	1347	777
45°	873	897	941	962	992	691
55°	641	663	700	755	796	572
65°	405	430	464	492	501	403
75°	205	223	198	200	206	218
85°	47	43	45	45	47	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2054	2054	2054	2054	2054
5°	2049	2051	2057	2065	2070
10°	1948	1954	1971	1995	2010
15°	1896	1904	1935	1977	2005
20°	1684	1697	1743	1801	1839
25°	1567	1583	1635	1684	1718
30°	1388	1407	1459	1484	1508
35°	1256	1282	1319	1331	1347
40°	1068	1098	1128	1140	1146
45°	873	897	941	962	992
50°	767	783	827	873	910
55°	641	663	700	755	796
60°	511	535	571	615	641
65°	405	430	464	492	501
70°	306	324	348	327	306
75°	205	223	198	200	206
80°	112	127	109	112	117
85°	47	43	45	45	47
90°	0	0	0	0	0

(END OF REPORT)