

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: 168P155

Luminaire Tested: **NEO-RAY 264-3T8 (Outside Lamps Off)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 168P155
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: NEO-RAY 264-3T8 (Outside Lamps Off)
Description: NEO-RAY RECESSED AMBIENT LENS TROFFER w/Outside
Lamps Off.
Light Source: One - FO32/35K - 2800 Lumens - 32 Watts
Ballast/Driver: TRIAD B132I120RH-A Electronic - L.O.B.F. = UNK

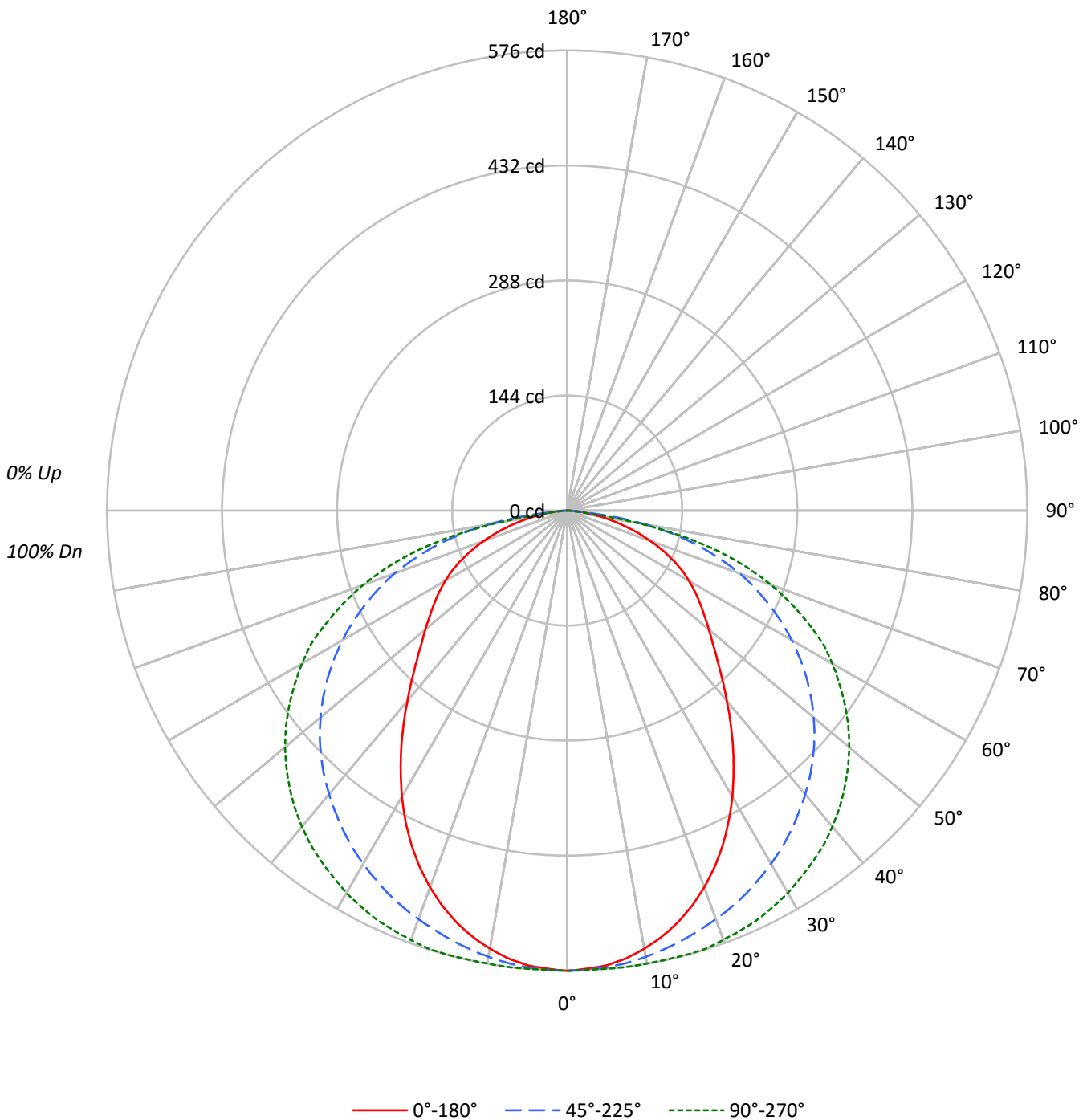
Summary

Lumens per Lamp: 2800 (1 lamp)
Luminaire Lumens: 1806.2 lumens
Efficiency: 64.5%
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.43 / 1.47
Luminous Opening: Rectangular (W 1.91' x L: 3.93' x H: 0')
CIE Type: Direct

Input Watts (W): 30
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	77	77	77	77	75	75	75	75	72	72	72	69	69	69	66	66	66	65
1	70	67	64	61	68	65	63	60	62	60	58	60	58	56	58	56	55	53
2	63	58	53	49	61	56	52	49	54	50	47	52	49	46	50	47	45	44
3	57	50	45	40	56	49	44	40	47	43	39	45	42	39	44	41	38	36
4	52	44	38	34	51	43	38	34	42	37	33	40	36	33	39	35	32	31
5	48	39	33	29	47	39	33	29	37	32	28	36	32	28	35	31	28	26
6	44	35	29	25	43	35	29	25	34	28	25	32	28	25	31	27	24	23
7	41	32	26	22	40	31	26	22	30	25	22	29	25	22	29	25	21	20
8	38	29	23	20	37	29	23	20	28	23	19	27	23	19	26	22	19	18
9	36	27	21	18	35	26	21	18	26	21	17	25	20	17	24	20	17	16
10	33	25	19	16	32	24	19	16	24	19	16	23	19	16	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	826	826	826
5°	822	826	829
10°	811	826	838
15°	793	827	855
20°	766	831	873
25°	730	837	893
30°	685	845	915
35°	634	856	939
40°	582	868	967
45°	540	883	996
50°	516	899	1029
55°	508	915	1061
60°	506	932	1100
65°	495	947	1128
70°	465	965	1137
75°	412	943	1082
80°	339	827	742
85°	250	207	135



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	54.6	3.0	1.9
10°-20°	157.0	8.7	5.6
20°-30°	240.1	13.3	8.6
30°-40°	294.3	16.3	10.5
40°-50°	316.7	17.5	11.3
50°-60°	304.9	16.9	10.9
60°-70°	254.6	14.1	9.1
70°-80°	156.6	8.7	5.6
80°-90°	27.4	1.5	1.0
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°	451.7	25.0	16.1
0°-40°	746.0	41.3	26.6
0°-60°	1367.6	75.7	48.8
0°-90°	1806.2	100.0	64.5
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°	1806.2	100.0	64.5

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	571	572	574	577	576	54
15°	534	541	557	572	576	150
25°	461	484	529	557	565	212
35°	362	417	489	525	536	226
45°	266	348	436	478	491	207
55°	203	275	366	410	424	182
65°	146	192	279	324	332	143
75°	74	105	170	194	195	79
85°	15	23	13	9	8	18
90°	0	0	0	0	0	1
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°	576.1	576.1	576.1	576.1	576.1
2.5°	574.1	574.6	575.5	577.2	575.3
5°	571.3	572.1	573.9	576.8	575.7
7.5°	565.4	566.9	571.2	575.9	576.1
10°	556.9	559.9	567.3	574.2	575.7
12.5°	546.6	551.3	562.4	573.1	575.6
15°	534.1	540.8	556.8	572.4	575.7
17.5°	519.0	528.5	550.6	570.5	575.2
20°	501.8	514.9	544.3	566.5	571.8
22.5°	482.6	500.0	537.3	562.2	568.6
25°	461.2	484.1	529.3	557.1	564.7
27.5°	438.1	467.5	520.1	550.9	558.9
30°	413.7	450.8	510.6	543.3	552.7
32.5°	387.8	433.9	500.4	534.8	544.4
35°	362.0	416.6	488.7	525.3	536.3
37.5°	336.1	399.6	476.3	515.4	527.4
40°	310.9	382.3	463.7	504.3	516.4
42.5°	287.6	365.3	450.2	491.7	504.7
45°	266.5	348.0	435.5	478.3	491.2
47.5°	247.7	330.5	419.9	463.2	476.7
50°	231.5	312.4	402.9	446.9	461.1
52.5°	216.8	293.9	385.1	429.5	443.6
55°	203.1	274.6	366.0	410.2	424.5
57.5°	190.0	254.7	345.9	390.0	404.2
60°	176.4	234.4	324.8	369.3	383.4
62.5°	161.8	213.4	302.5	346.9	361.3
65°	145.8	192.1	279.1	323.7	332.4
67.5°	128.7	170.2	255.2	293.2	302.9
70°	110.8	148.2	230.1	263.0	271.2
72.5°	92.5	126.3	200.3	230.1	236.1
75°	74.3	104.8	170.2	193.5	195.3
77.5°	56.9	84.0	137.3	149.1	146.9
80°	41.0	63.5	100.1	97.3	89.8
82.5°	26.9	42.8	56.7	38.1	26.7
85°	15.2	22.9	12.6	8.8	8.2
87.5°	6.2	5.7	4.9	4.6	4.3
90°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)