

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: 168p256

Luminaire Tested: **232R-3T8-ETG-2EB-DU-SFB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 168p256
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 232R-3T8-ETG-2EB-DU-SFB
Description: 2'X2' NEORAY FENESTRA RECESSED LUM,1 LAMP T8, WITH WHITE
PERFORATED BASKET, FROSTED BAFFLE, SIDE LAMPS OFF CENTER LAMP
ON
Light Source: ONE - F17T8/TL841 - 1300 LUMENS - 17 WATTS
Ballast/Driver: B232IUNVHPB

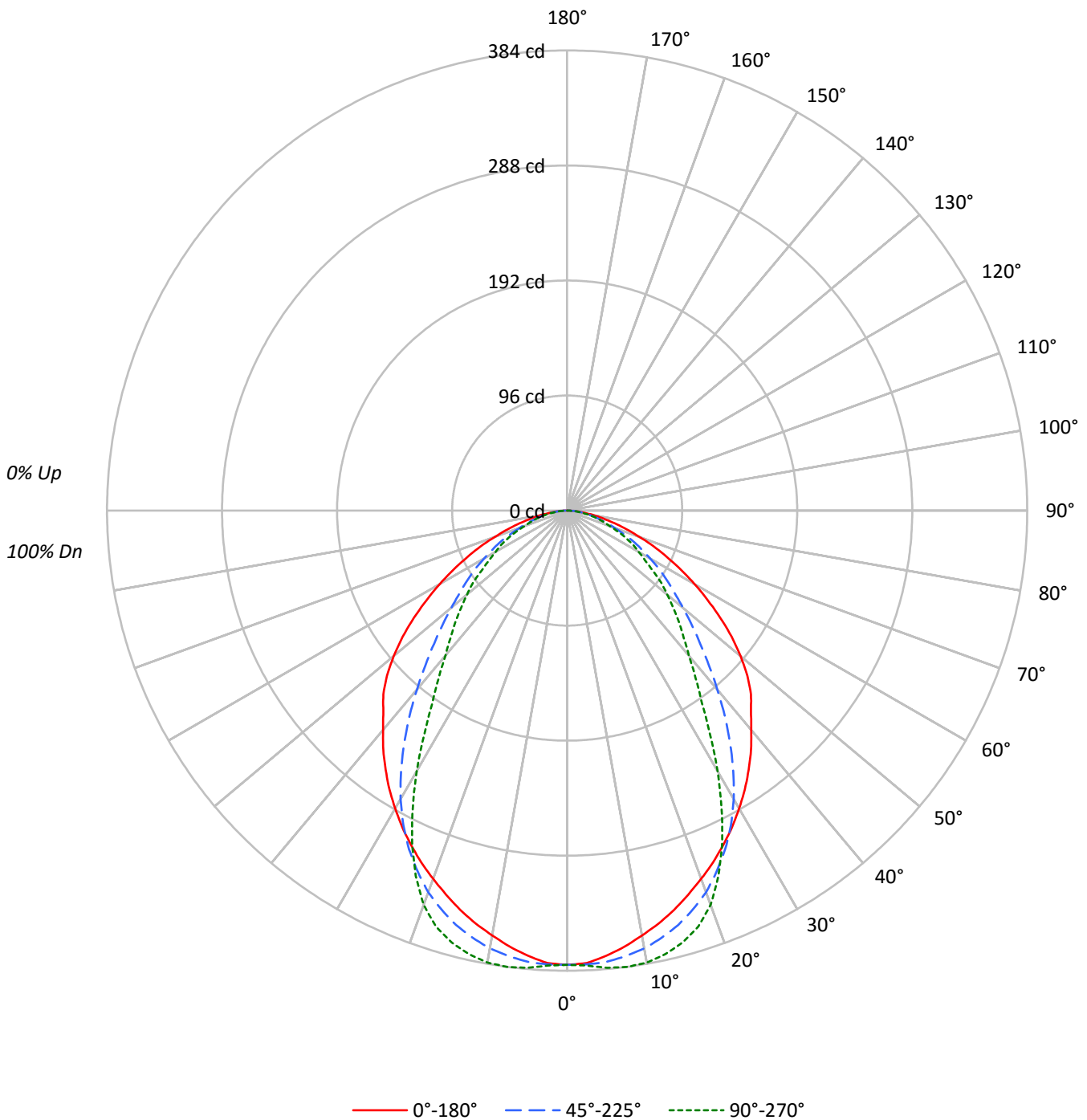
Summary

Lumens per Lamp: 1300 (1 lamp)
Luminaire Lumens: 764.2 lumens
Efficiency: 58.8%
Efficacy: 42.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.06 / 1.14
Luminous Opening: Rectangular (W 1.98' x L: 1.94' x H: 0')
CIE Type: Direct

Input Watts (W): 18
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	70	70	70	70	68	68	68	68	65	65	65	63	63	63	60	60	60	59
1	65	62	60	58	63	61	59	57	58	57	55	56	55	54	54	53	52	51
2	60	55	52	49	58	54	51	48	52	49	47	50	48	46	48	47	45	44
3	55	49	45	41	53	48	44	41	47	43	40	45	42	40	44	41	39	38
4	51	44	40	36	49	43	39	36	42	38	35	41	37	35	39	37	34	33
5	47	40	35	32	46	39	35	31	38	34	31	37	33	31	36	33	30	29
6	44	36	31	28	43	36	31	28	35	31	28	34	30	27	33	30	27	26
7	41	33	28	25	40	33	28	25	32	28	25	31	27	25	30	27	24	23
8	38	31	26	23	37	30	26	23	29	25	22	29	25	22	28	25	22	21
9	36	28	24	21	35	28	24	21	27	23	20	27	23	20	26	23	20	19
10	34	26	22	19	33	26	22	19	25	21	19	25	21	19	24	21	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1064	1064	1064
5°	1051	1065	1079
10°	1026	1057	1092
15°	1003	1040	1084
20°	977	1013	1046
25°	954	966	948
30°	930	901	814
35°	905	812	672
40°	876	715	579
45°	861	623	524
50°	825	550	476
55°	763	499	426
60°	691	449	387
65°	611	405	359
70°	525	345	312
75°	445	304	293
80°	372	275	259
85°	322	258	225



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	35.8	4.7	2.8
10°-20°	100.7	13.2	7.7
20°-30°	141.7	18.5	10.9
30°-40°	146.7	19.2	11.3
40°-50°	129.6	17.0	10.0
50°-60°	101.3	13.3	7.8
60°-70°	65.8	8.6	5.1
70°-80°	33.1	4.3	2.5
80°-90°	9.6	1.3	0.7
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°	278.2	36.4	21.4
0°-40°	424.9	55.6	32.7
0°-60°	655.8	85.8	50.4
0°-90°	764.2	100.0	58.8
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°	764.2	100.0	58.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	379	379	379	379	379	
5°	373	375	378	381	383	35
15°	345	351	358	365	373	97
25°	308	313	312	305	306	142
35°	264	264	237	206	196	165
45°	217	202	157	137	132	166
55°	156	136	102	93	87	139
65°	92	75	61	56	54	92
75°	41	34	28	27	27	44
85°	10	10	8	8	7	11
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	379	379	379	379	379
2.5°	378	378	379	380	380
5°	373	375	378	381	383
7.5°	367	370	375	380	384
10°	360	364	371	377	383
12.5°	353	358	365	372	379
15°	345	351	358	365	373
17.5°	336	342	349	356	364
20°	327	333	339	343	350
22.5°	318	324	326	326	330
25°	308	313	312	305	306
27.5°	298	302	296	282	279
30°	287	290	278	256	251
32.5°	276	278	258	231	222
35°	264	264	237	206	196
37.5°	252	250	216	183	176
40°	239	234	195	166	158
42.5°	227	218	175	149	144
45°	217	202	157	137	132
47.5°	204	187	141	125	120
50°	189	171	126	114	109
52.5°	173	154	113	103	99
55°	156	136	102	93	87
57.5°	139	119	91	82	77
60°	123	103	80	73	69
62.5°	107	88	70	64	62
65°	92	75	61	56	54
67.5°	78	63	51	48	46
70°	64	53	42	40	38
72.5°	52	43	35	33	32
75°	41	34	28	27	27
77.5°	31	26	22	22	21
80°	23	20	17	17	16
82.5°	15	14	12	12	11
85°	10	10	8	8	7
87.5°	5	6	5	4	3
90°	0	0	0	0	0

(END OF REPORT)