

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. 12385.0

Luminaire Tested: **7A/2T5-648-STG-1EB-CRYSTAL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 12385.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 7A/2T5-648-STG-1EB-CRYSTAL
Description: 2/28W T5 OFFSET LAMPS 4'RECESSED MNT LUMINAIRE
Light Source: -
FP28T5/835
Ballast/Driver: UNIVERSAL BALLAST #B228PUNV-C

Summary

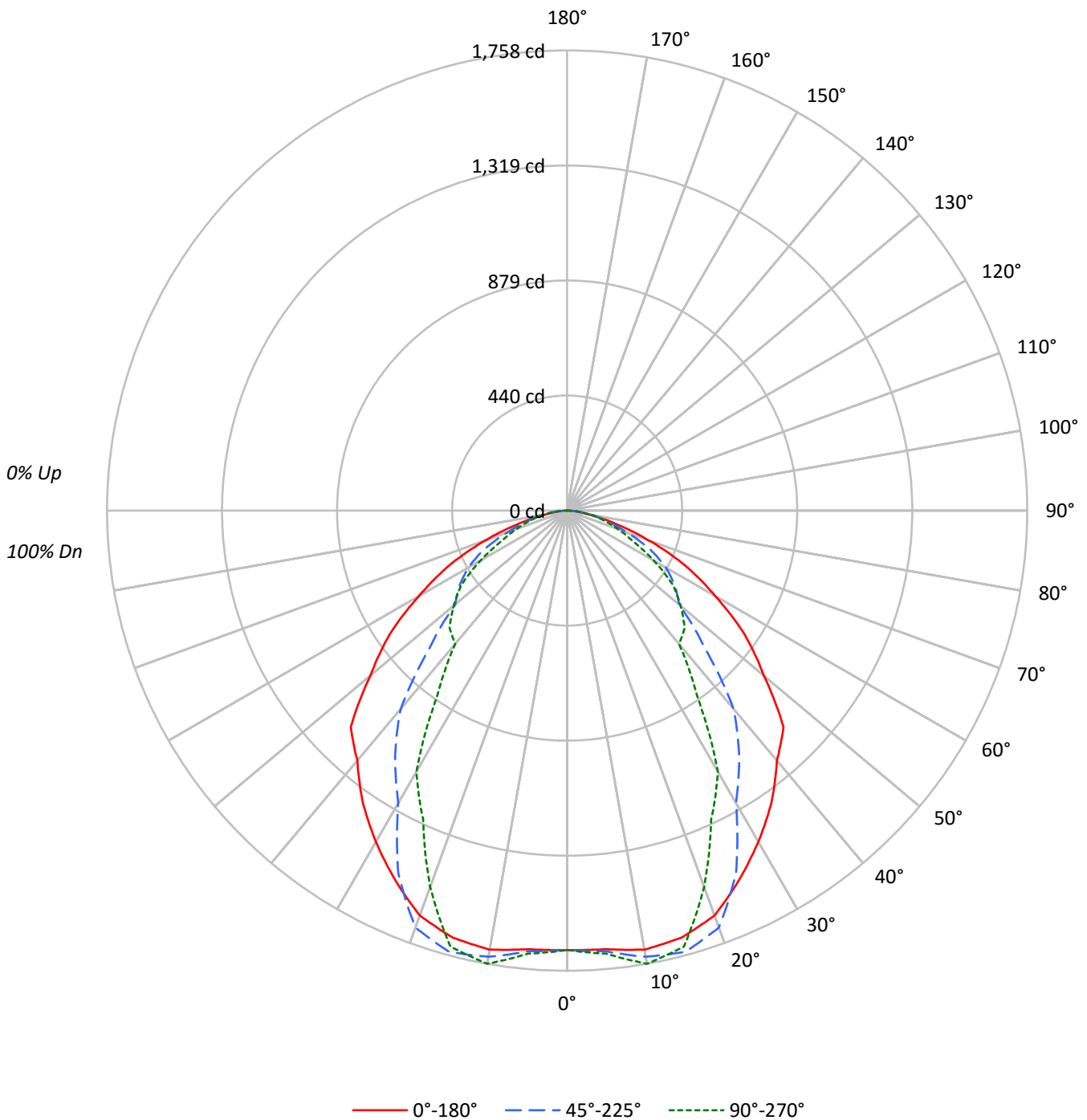
Lumens per Lamp: 2900 (2 lamps)
Luminaire Lumens: 3788.5 lumens
Efficiency: 65.3%
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.06 / 1.2
Luminous Opening: Rectangular (W 0.43' x L: 3.92' x H: 0')
CIE Type: Direct

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	78	78	78	78	76	76	76	76	73	73	73	69	69	69	67	67	67	65
1	72	69	66	64	70	68	65	63	65	63	61	62	61	59	60	59	58	56
2	66	61	57	54	64	60	56	53	58	54	52	55	53	51	54	51	49	48
3	61	54	49	46	59	53	49	45	51	48	44	50	46	44	48	45	43	41
4	56	49	43	39	54	48	43	39	46	42	38	45	41	38	43	40	37	36
5	52	44	38	34	50	43	38	34	42	37	34	41	37	33	39	36	33	32
6	48	40	34	30	47	39	34	30	38	33	30	37	33	30	36	32	30	28
7	45	36	31	27	44	36	31	27	35	30	27	34	30	27	33	29	27	25
8	42	33	28	25	41	33	28	24	32	28	24	31	27	24	31	27	24	23
9	39	31	26	22	38	30	26	22	30	25	22	29	25	22	28	25	22	21
10	37	29	24	20	36	28	24	20	28	23	20	27	23	20	26	23	20	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10792	10792	10792
5°	10852	10904	10962
10°	11115	11297	11474
15°	11239	11611	11472
20°	11258	11594	10465
25°	11035	10829	9234
30°	10843	9574	8550
35°	10679	8992	6795
40°	10463	8298	5580
45°	10626	6772	5772
50°	9809	5580	5660
55°	9301	5637	5513
60°	8407	5605	4911
65°	7574	5308	4213
70°	6183	4529	3871
75°	4569	3899	3576
80°	2924	3442	3257
85°	2655	3024	2802



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	162.7	4.3	2.8
10°-20°	482.0	12.7	8.3
20°-30°	681.0	18.0	11.7
30°-40°	721.6	19.0	12.4
40°-50°	644.5	17.0	11.1
50°-60°	524.2	13.8	9.0
60°-70°	347.3	9.2	6.0
70°-80°	178.0	4.7	3.1
80°-90°	47.1	1.2	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°	1325.8	35.0	22.9
0°-40°	2047.4	54.0	35.3
0°-60°	3216.0	84.9	55.4
0°-90°	3788.5	100.0	65.3
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°	3788.5	100.0	65.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1679	1679	1679	1679	1679	
5°	1682	1685	1690	1696	1699	161
15°	1689	1708	1745	1735	1724	476
25°	1556	1605	1527	1341	1302	718
35°	1361	1400	1146	984	866	851
45°	1169	1083	745	633	635	882
55°	830	710	503	503	492	737
65°	498	346	349	296	277	489
75°	184	200	157	147	144	204
85°	36	43	41	40	38	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1679	1679	1679	1679	1679
5°	1682	1685	1690	1696	1699
10°	1703	1715	1731	1750	1758
15°	1689	1708	1745	1735	1724
20°	1646	1679	1695	1592	1530
25°	1556	1605	1527	1341	1302
30°	1461	1516	1290	1188	1152
35°	1361	1400	1146	984	866
40°	1247	1236	989	700	665
45°	1169	1083	745	633	635
50°	981	859	558	566	566
55°	830	710	503	503	492
60°	654	512	436	399	382
65°	498	346	349	296	277
70°	329	277	241	209	206
75°	184	200	157	147	144
80°	79	105	93	88	88
85°	36	43	41	40	38
90°	0	0	0	0	0

(END OF REPORT)