

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. 8072

Luminaire Tested: **6DIW-S26-S26**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: BALLABS TEST NO. 8072
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 6DIW-S26-S26
Description: 6"DIA CYL DIR/INDIRECT LUMINAIRE REFL=8
Light Source: 3-F32T8/735/RS
Ballast/Driver: -

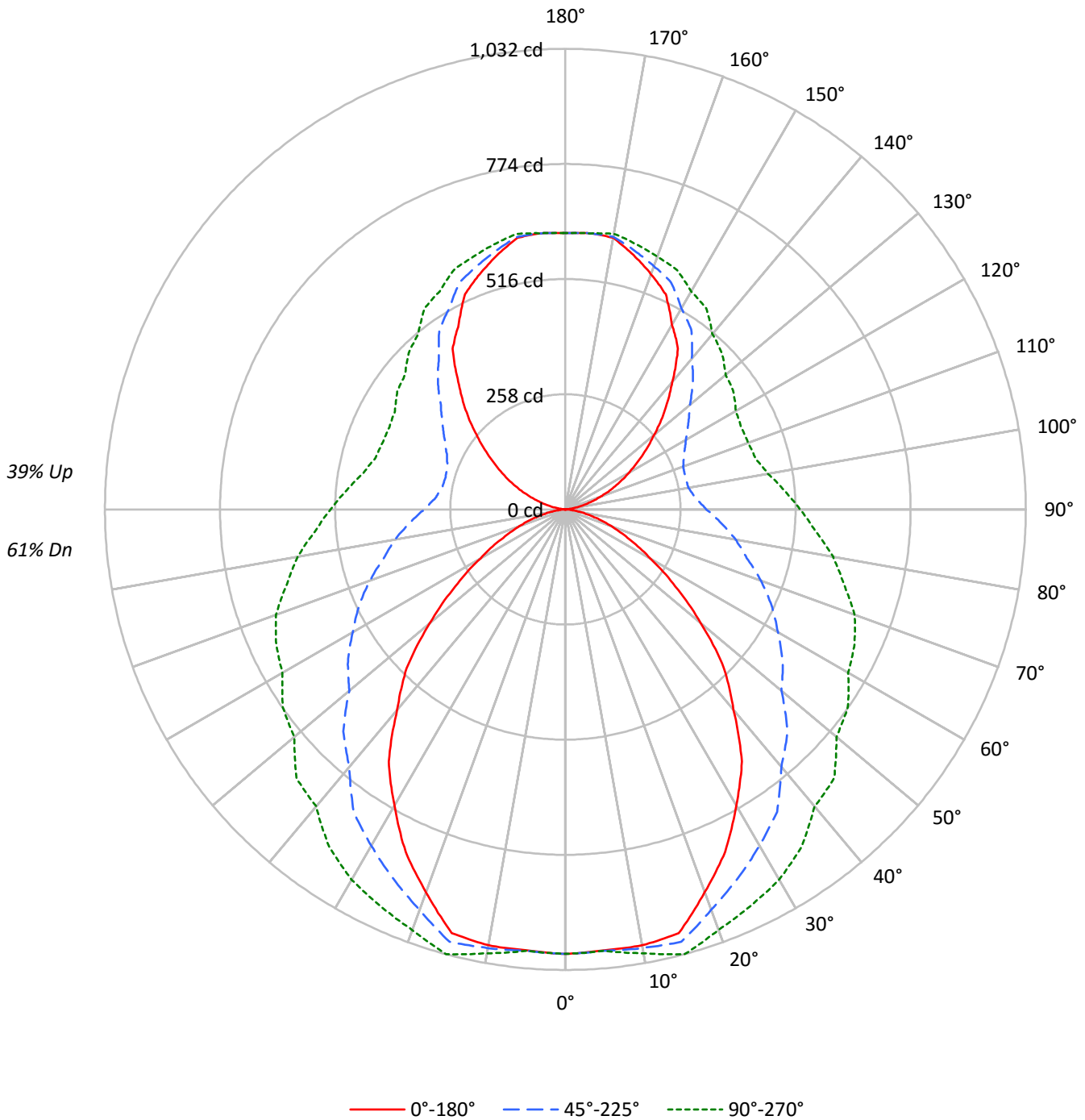
Summary

Lumens per Lamp: 2850 (3 lamps)
Luminaire Lumens: 5781.1 lumens
Efficiency: 67.6%
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.42 / 1.43
Luminous Opening: Rectangular w/ Sides (W: 0.44' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 80
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	50	30	10	0	
RCR																						
0	74	74	74	74	69	69	69	69	61	61	61	52	52	52	45	45	45	41				41
1	66	62	59	56	62	58	55	53	51	48	46	44	42	40	37	36	35	31				31
2	60	54	49	45	55	50	46	42	44	40	37	37	35	33	32	30	28	25				25
3	54	47	41	37	50	44	39	35	38	34	31	33	30	27	28	25	23	21				21
4	49	41	35	31	46	39	33	29	34	29	26	29	26	23	25	22	20	17				17
5	45	37	31	26	42	34	29	25	30	26	22	26	22	20	22	19	17	15				15
6	42	33	27	23	39	31	25	21	27	23	19	23	20	17	20	17	15	13				13
7	38	30	24	20	36	28	23	19	24	20	17	21	18	15	18	15	13	11				11
8	36	27	21	17	33	25	20	17	22	18	15	19	16	13	17	14	12	10				10
9	33	25	19	15	31	23	18	15	20	16	13	18	14	12	15	13	11	9				9
10	31	22	17	14	29	21	16	13	19	15	12	16	13	11	14	12	10	8				8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6119	6119	6119
5°	6101	6006	5975
10°	6155	5990	5999
15°	6200	6019	6098
20°	5902	5773	5941
25°	5659	5604	5869
30°	5338	5465	5835
35°	5064	5362	5770
40°	4580	5084	5623
45°	4238	4998	5759
50°	3649	4768	5656
55°	3086	4829	5882
60°	2564	4870	6019
65°	2153	5009	6448
70°	1803	5183	6947
75°	1424	5444	7426
80°	962	6032	8229
85°	467	6932	9312



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	95.1	1.6	1.1
10°-20°	280.6	4.9	3.3
20°-30°	421.1	7.3	4.9
30°-40°	506.7	8.8	5.9
40°-50°	528.1	9.1	6.2
50°-60°	504.9	8.7	5.9
60°-70°	463.5	8.0	5.4
70°-80°	403.8	7.0	4.7
80°-90°	336.2	5.8	3.9
90°-100°	286.7	5.0	3.4
100°-110°	271.5	4.7	3.2
110°-120°	281.1	4.9	3.3
120°-130°	299.5	5.2	3.5
130°-140°	311.7	5.4	3.6
140°-150°	305.1	5.3	3.6
150°-160°	256.4	4.4	3.0
160°-170°	169.9	2.9	2.0
170°-180°	59.2	1.0	0.7
0°-30°	796.8	13.8	9.3
0°-40°	1303.5	22.5	15.2
0°-60°	2336.5	40.4	27.3
0°-90°	3540.0	61.2	41.4
90°-120°	839.3	14.5	9.8
90°-150°	1755.6	30.4	20.5
90°-180°	2241.0	38.8	26.2
0°-180°	5781.1	100.0	67.6

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	992	996	993	992	993	95
15°	983	990	1003	1023	1032	273
25°	847	863	913	964	981	389
35°	690	727	827	898	923	427
45°	503	566	704	812	852	383
55°	301	401	595	729	773	272
65°	158	264	510	660	715	159
75°	67	147	421	595	646	72
85°	9	73	350	515	563	13
90°	0	56	316	475	526	2
95°	4	56	292	446	492	11
105°	52	90	278	404	441	56
115°	123	156	293	400	435	122
125°	210	241	336	426	460	189
135°	316	338	404	470	496	244
145°	440	453	492	533	550	271
155°	532	538	561	581	592	242
165°	590	590	600	611	615	167
175°	621	620	621	620	621	59
180°	619	619	619	619	619	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	996	996	996	996	996
5°	992	996	993	992	993
10°	992	996	998	1004	1010
15°	983	990	1003	1023	1032
20°	913	923	955	987	1003
25°	847	863	913	964	981
30°	766	792	870	936	958
35°	690	727	827	898	923
40°	586	641	753	838	869
45°	503	566	704	812	852
50°	396	472	632	755	793
55°	301	401	595	729	773
60°	220	330	550	683	732
65°	158	264	510	660	715
70°	109	200	466	633	690
75°	67	147	421	595	646
80°	32	103	387	563	609
85°	9	73	350	515	563
90°	0	56	316	475	526
95°	4	56	292	446	492
100°	24	67	280	421	461
105°	52	90	278	404	441
110°	84	118	281	400	436
115°	123	156	293	400	435
120°	164	198	312	407	441
125°	210	241	336	426	460
130°	260	284	364	440	469
135°	316	338	404	470	496
140°	373	389	441	492	513
145°	440	453	492	533	550
150°	478	489	520	550	564
155°	532	538	561	581	592
160°	561	564	580	596	603
165°	590	590	600	611	615
170°	618	616	620	626	627
175°	621	620	621	620	621
180°	619	619	619	619	619

(END OF REPORT)