

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: ***

Luminaire Tested: **66DS-4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ***
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 66DS-4FT
Description: DIRECT SURFACE MOUNTED 3"HIGH x 9"WIDE x 4'LONG PARABOLIC
WITH A 20 CELL SEMI-SPECULAR LOUVER
Light Source: 2-T8
Ballast/Driver: -

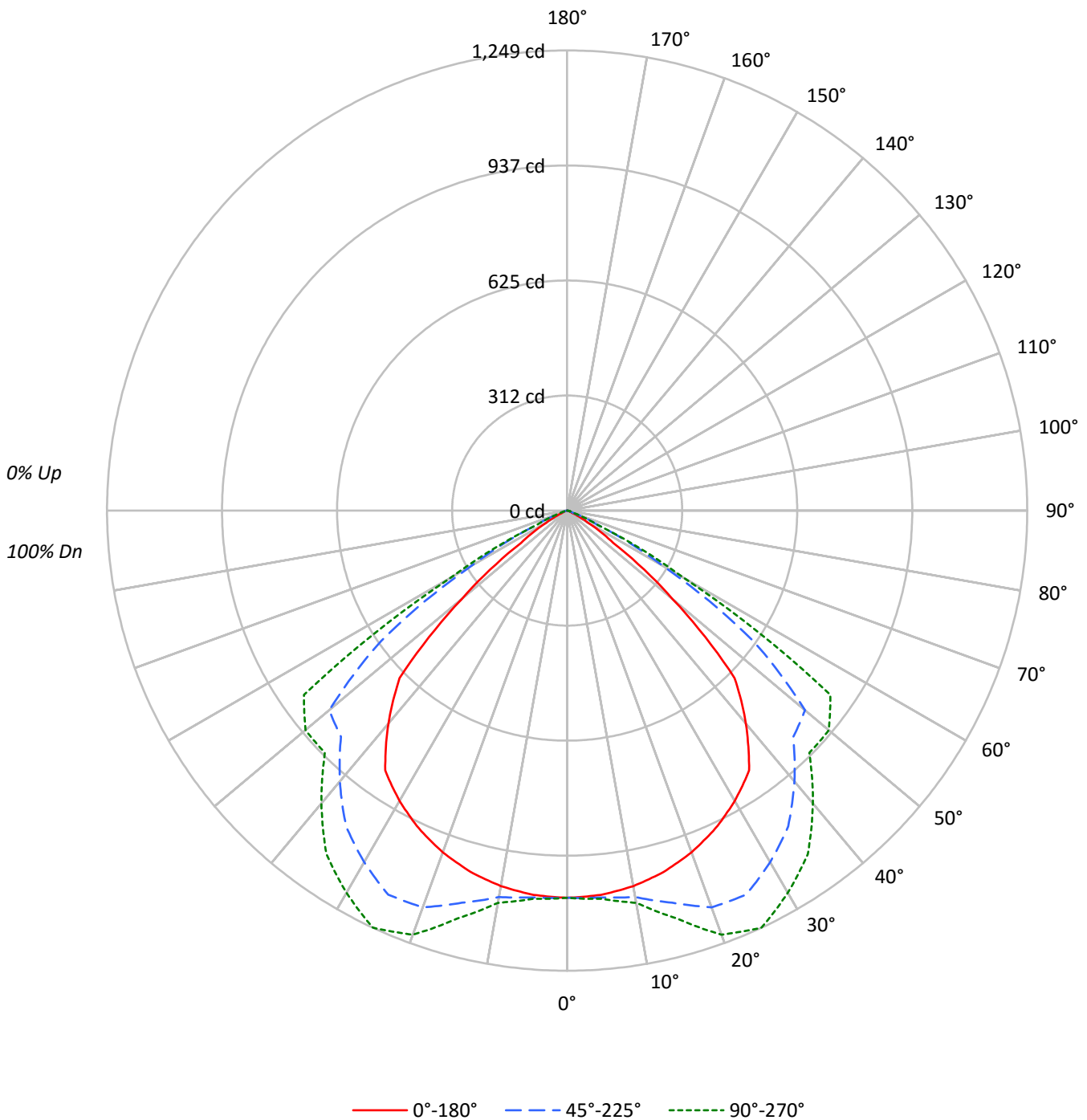
Summary

Lumens per Lamp: 2850 (2 lamps)
Luminaire Lumens: 2846.2 lumens
Efficiency: 49.9%
Efficacy: 39.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.57 / 1.55
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 4' x H: 0.3')
CIE Type: Direct

Input Watts (W): 72
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	59	59	59	59	58	58	58	58	55	55	55	53	53	53	51	51	51	50
1	56	54	52	51	54	53	51	50	51	49	48	49	48	47	47	46	45	44
2	51	48	45	43	50	47	45	43	46	43	42	44	42	41	43	41	40	39
3	48	43	40	37	46	42	39	37	41	38	36	40	37	35	38	36	35	34
4	44	39	35	32	43	38	34	32	37	34	31	36	33	31	35	32	30	30
5	40	35	31	28	40	34	30	28	33	30	27	32	29	27	31	29	27	26
6	37	31	27	24	37	31	27	24	30	27	24	29	26	24	29	26	24	23
7	35	29	25	22	34	28	24	22	27	24	21	27	24	21	26	23	21	20
8	32	26	22	19	32	26	22	19	25	22	19	24	21	19	24	21	19	18
9	30	24	20	17	30	24	20	17	23	20	17	23	19	17	22	19	17	16
10	28	22	18	16	28	22	18	16	21	18	16	21	18	16	20	18	16	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7071	7071	7071
5°	7024	6772	6705
10°	6978	6597	6522
15°	6930	6638	6646
20°	6878	6768	6889
25°	6828	6711	6869
30°	6776	6404	6494
35°	6718	6099	6133
40°	6238	5660	5595
45°	5691	5216	5056
50°	3603	5205	5123
55°	1621	3941	4938
60°	774	2001	2142
65°	219	629	531
70°	147	121	141
75°	81	49	62
80°	54	36	37
85°	42	10	16



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	101.0	3.5	1.8
10°-20°	314.7	11.1	5.5
20°-30°	528.5	18.6	9.3
30°-40°	653.6	23.0	11.5
40°-50°	659.0	23.2	11.6
50°-60°	473.1	16.6	8.3
60°-70°	105.2	3.7	1.8
70°-80°	9.3	0.3	0.2
80°-90°	1.7	0.1	0.0
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°	944.2	33.2	16.6
0°-40°	1597.8	56.1	28.0
0°-60°	2730.0	95.9	47.9
0°-90°	2846.2	100.0	49.9
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°	2846.2	100.0	49.9

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1047	1053	1054	1057	1058	100
15°	1015	1092	1102	1145	1146	287
25°	952	1127	1150	1247	1249	439
35°	861	1025	1046	1137	1139	530
45°	643	854	868	929	930	465
55°	153	360	616	771	872	165
65°	16	33	89	129	87	26
75°	4	5	6	8	9	5
85°	1	1	1	2	2	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1051	1051	1051	1051	1051
5°	1047	1053	1054	1057	1058
10°	1035	1062	1065	1081	1081
15°	1015	1092	1102	1145	1146
20°	987	1128	1146	1223	1225
25°	952	1127	1150	1247	1249
30°	910	1080	1102	1196	1198
35°	861	1025	1046	1137	1139
40°	755	943	960	1037	1038
45°	643	854	868	929	930
50°	375	524	843	925	927
55°	153	360	616	771	872
60°	65	144	299	376	366
65°	16	33	89	129	87
70°	9	12	16	32	22
75°	4	5	6	8	9
80°	2	3	4	4	5
85°	1	1	1	2	2
90°	0	0	0	0	0

(END OF REPORT)