

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P888409

Luminaire Tested: **DPT5-6FO36-109V60-F-XX-UDD\_4500K**

Issue Date: 10/24/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P888409  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (DEFINE LENGTH SCALING TOOL)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 10/24/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: DPT5-6FO36-109V60-F-XX-UDD\_4500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

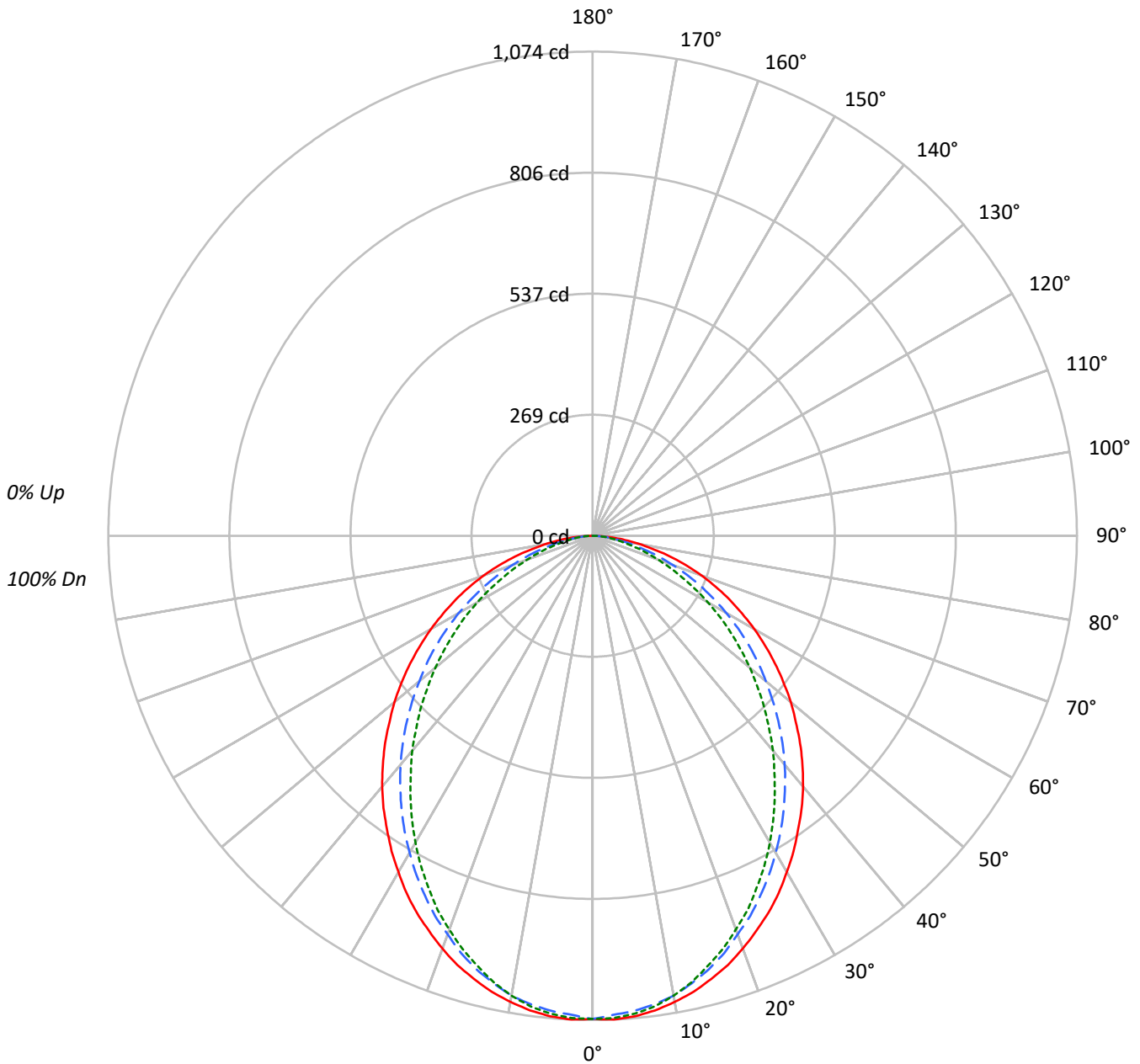
Lumens per Lamp: N/A  
Luminaire Lumens: 2532.0 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
RC	80									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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61																			
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53																			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46																			
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41																			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36																			
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33																			
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29																			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10192	10192	10192
5°	10216	10100	10160
10°	10138	10005	10005
15°	10018	9802	9723
20°	9862	9519	9405
25°	9682	9241	9037
30°	9458	8915	8632
35°	9229	8580	8176
40°	9015	8230	7728
45°	8752	7837	7240
50°	8491	7413	6731
55°	8188	7009	6190
60°	7882	6511	5604
65°	7525	5941	4933
70°	7113	5219	4254
75°	6544	4402	3542
80°	5767	3461	2979
85°	4845	2837	2652



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.9	4.0
10°-20°	281.9	11.1
20°-30°	408.7	16.1
30°-40°	465.6	18.4
40°-50°	453.8	17.9
50°-60°	382.0	15.1
60°-70°	267.6	10.6
70°-80°	137.2	5.4
80°-90°	34.2	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	791.4	31.3
0°-40°	1257.1	49.6
0°-60°	2092.9	82.7
0°-90°	2532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2532.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1070	1067	1058	1066	1064	101
15°	1018	1013	996	995	988	287
25°	923	910	881	870	861	425
35°	795	776	739	716	704	498
45°	651	628	583	550	538	502
55°	494	468	423	386	373	442
65°	334	307	264	231	219	331
75°	178	154	120	102	96	188
85°	44	30	26	25	24	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1071.7	1071.7	1071.7	1071.7	1071.7
2.5°	1074.1	1071.7	1063.6	1071.7	1070.8
5°	1070.1	1066.9	1057.9	1065.9	1064.2
7.5°	1062.0	1058.7	1048.2	1054.6	1053.1
10°	1049.8	1047.4	1036.0	1038.6	1036.0
12.5°	1036.0	1032.7	1016.5	1018.1	1014.2
15°	1017.5	1012.6	995.5	994.7	987.5
17.5°	998.0	990.8	970.4	966.5	960.8
20°	974.4	966.5	940.5	936.5	929.3
22.5°	948.6	940.5	913.2	904.2	898.3
25°	922.6	910.5	880.6	870.1	861.2
27.5°	893.7	879.0	847.4	833.8	824.9
30°	861.2	845.9	811.8	793.4	786.0
32.5°	829.6	811.1	776.3	755.2	745.6
35°	794.9	775.5	739.0	715.6	704.2
37.5°	761.7	738.1	700.9	673.6	662.0
40°	726.1	701.8	662.9	632.1	622.5
42.5°	688.7	663.6	623.1	594.1	578.7
45°	650.7	627.5	582.7	550.4	538.3
47.5°	610.9	586.9	542.2	509.1	495.3
50°	573.9	547.1	501.0	467.1	454.9
52.5°	533.3	506.0	462.9	425.7	413.5
55°	493.8	467.9	422.7	386.2	373.3
57.5°	453.3	425.7	382.1	346.4	335.1
60°	414.4	386.2	342.3	306.7	294.6
62.5°	373.3	346.4	301.9	269.5	257.4
65°	334.4	306.7	264.0	231.4	219.2
67.5°	295.3	268.0	226.6	195.9	186.3
70°	255.8	228.2	187.7	162.6	153.0
72.5°	217.0	190.2	153.0	130.3	124.8
75°	178.1	153.7	119.8	102.1	96.4
77.5°	138.3	118.9	90.5	77.0	72.1
80°	105.3	85.9	63.2	55.9	54.4
82.5°	72.8	55.9	42.2	39.5	38.9
85°	44.4	29.9	26.0	25.1	24.3
87.5°	18.8	12.9	12.2	12.2	11.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)