

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: P888188

Luminaire Tested: **DPT5-6FO44-109V60-A-XX-UDD\_4000K**

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: P888188  
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: DPT5-6FO44-109V60-A-XX-UDD\_4000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

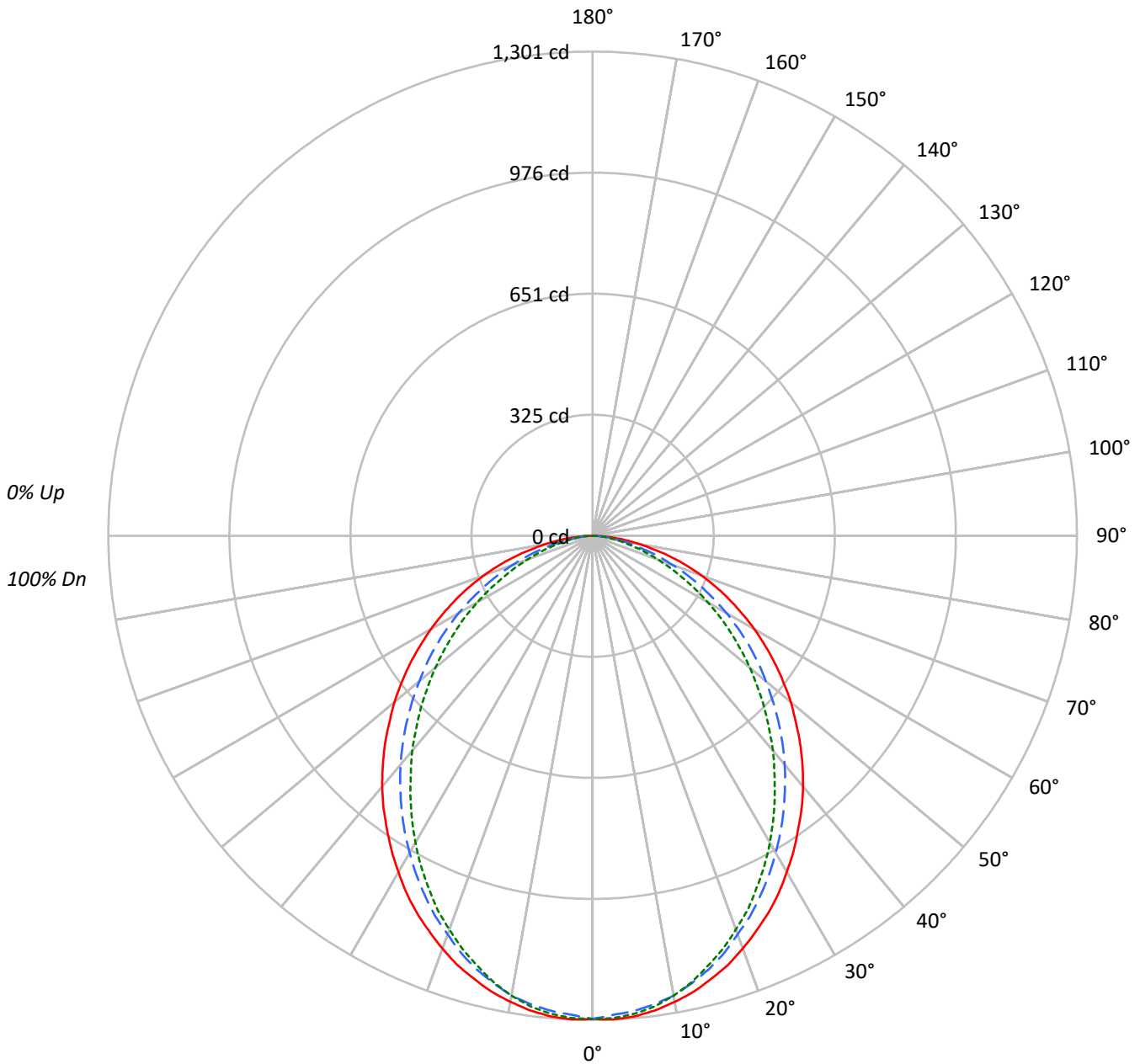
Lumens per Lamp: N/A  
Luminaire Lumens: 3067.0 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.8  
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

TEST NUMBER: P888188

CATALOG NUMBER: DPT5-6FO44-109V60-A-XX-UDD\_4000K

### 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°	10036	10036	10036
5°	10059	9945	10004
10°	9982	9851	9851
15°	9864	9651	9574
20°	9710	9372	9260
25°	9533	9099	8898
30°	9312	8779	8499
35°	9086	8449	8050
40°	8876	8104	7609
45°	8617	7717	7128
50°	8360	7299	6628
55°	8063	6901	6094
60°	7762	6412	5517
65°	7409	5848	4857
70°	7005	5138	4188
75°	6443	4334	3489
80°	5676	3410	2929
85°	4772	2794	2617



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.2	4.0
10°-20°	341.4	11.1
20°-30°	495.1	16.1
30°-40°	564.0	18.4
40°-50°	549.7	17.9
50°-60°	462.7	15.1
60°-70°	324.2	10.6
70°-80°	166.2	5.4
80°-90°	41.5	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°	958.7	31.3
0°-40°	1522.7	49.6
0°-60°	2535.1	82.7
0°-90°	3067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3067.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1296	1292	1282	1291	1289	123
15°	1232	1226	1206	1205	1196	348
25°	1118	1103	1067	1054	1043	514
35°	963	939	895	867	853	603
45°	788	760	706	667	652	608
55°	598	567	512	468	452	535
65°	405	372	320	280	266	401
75°	216	186	145	124	117	228
85°	54	36	32	30	30	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1298.2	1298.2	1298.2	1298.2	1298.2
2.5°	1301.1	1298.2	1288.4	1298.2	1297.1
5°	1296.2	1292.4	1281.5	1291.1	1289.1
7.5°	1286.4	1282.4	1269.6	1277.5	1275.6
10°	1271.6	1268.7	1254.9	1258.0	1254.9
12.5°	1254.9	1250.9	1231.3	1233.3	1228.5
15°	1232.5	1226.5	1205.8	1204.9	1196.2
17.5°	1208.9	1200.2	1175.4	1170.7	1163.8
20°	1180.3	1170.7	1139.2	1134.3	1125.6
22.5°	1149.1	1139.2	1106.1	1095.2	1088.1
25°	1117.6	1102.9	1066.7	1053.9	1043.2
27.5°	1082.5	1064.7	1026.5	1009.9	999.2
30°	1043.2	1024.7	983.4	961.0	952.1
32.5°	1004.8	982.5	940.3	914.8	903.2
35°	962.8	939.4	895.2	866.8	853.0
37.5°	922.6	894.1	849.0	815.9	801.9
40°	879.5	850.1	803.0	765.7	754.0
42.5°	834.2	803.9	754.8	719.7	700.9
45°	788.2	760.0	705.8	666.7	652.0
47.5°	740.0	710.9	656.7	616.7	600.0
50°	695.1	662.7	606.9	565.8	551.1
52.5°	646.0	612.9	560.7	515.6	500.9
55°	598.2	566.7	512.0	467.8	452.1
57.5°	549.1	515.6	462.9	419.6	405.9
60°	502.0	467.8	414.7	371.6	356.8
62.5°	452.1	419.6	365.7	326.5	311.7
65°	405.0	371.6	319.7	280.3	265.5
67.5°	357.7	324.6	274.4	237.3	225.7
70°	309.9	276.4	227.3	197.0	185.3
72.5°	262.8	230.4	185.3	157.9	151.1
75°	215.7	186.2	145.1	123.7	116.8
77.5°	167.5	144.0	109.7	93.3	87.3
80°	127.5	104.0	76.6	67.7	65.8
82.5°	88.2	67.7	51.1	47.8	47.1
85°	53.8	36.2	31.5	30.4	29.5
87.5°	22.7	15.6	14.7	14.7	13.6
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)