

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: P888187

Luminaire Tested: **DPT5-6FO44-109V60-A-XX-UDD\_3500K**

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: P888187  
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\_3500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

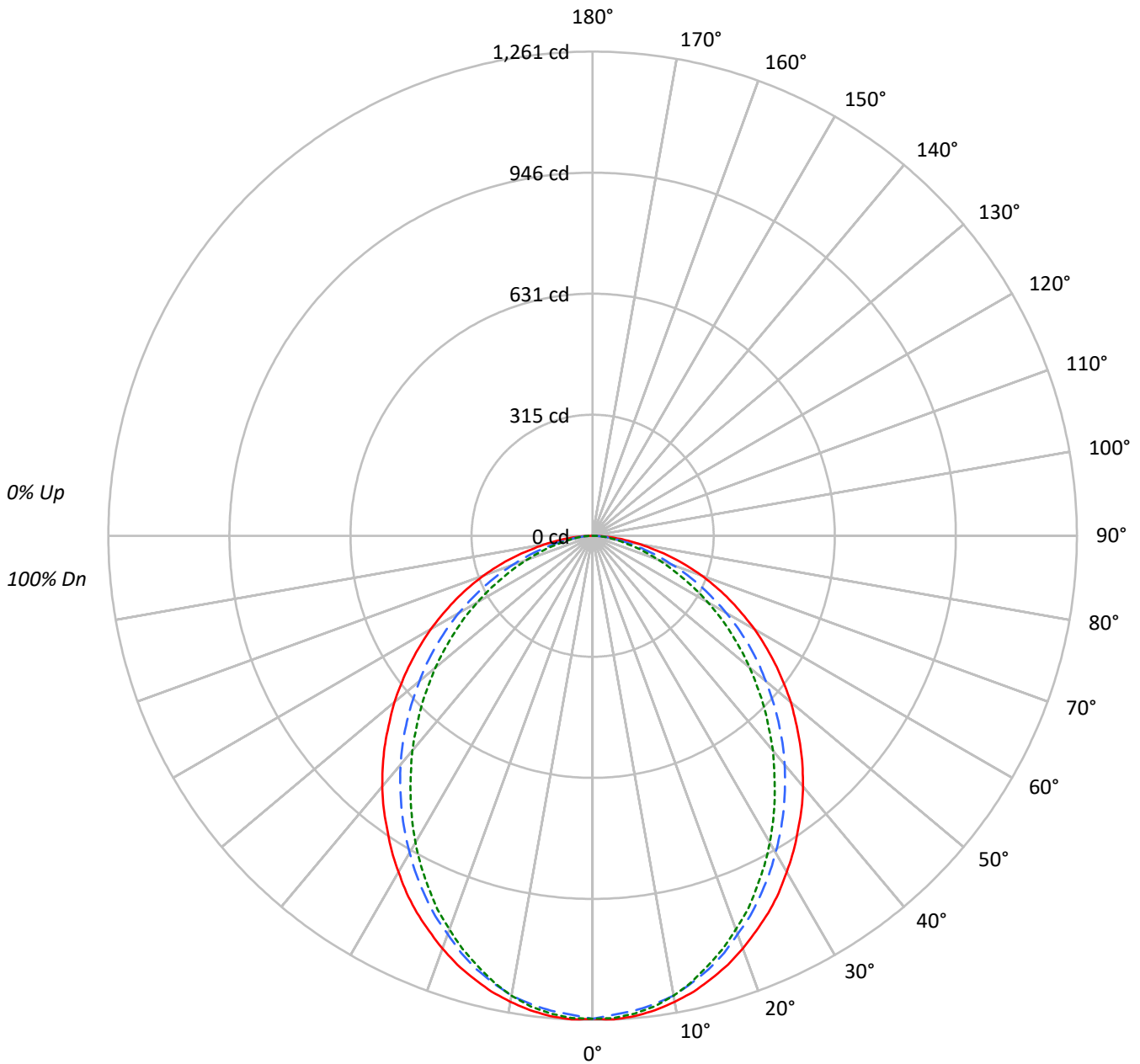
Lumens per Lamp: N/A  
Luminaire Lumens: 2972.0 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')  
CIE Type: Direct

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

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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°	9725	9725	9725
5°	9747	9637	9694
10°	9674	9546	9546
15°	9559	9352	9277
20°	9410	9083	8973
25°	9238	8817	8623
30°	9024	8506	8236
35°	8805	8186	7801
40°	8601	7852	7374
45°	8351	7478	6907
50°	8101	7073	6422
55°	7812	6687	5905
60°	7521	6212	5347
65°	7180	5667	4707
70°	6788	4980	4060
75°	6243	4200	3378
80°	5498	3303	2840
85°	4630	2705	2537



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.4	4.0
10°-20°	330.8	11.1
20°-30°	479.7	16.1
30°-40°	546.6	18.4
40°-50°	532.7	17.9
50°-60°	448.3	15.1
60°-70°	314.2	10.6
70°-80°	161.1	5.4
80°-90°	40.2	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°	929.0	31.3
0°-40°	1475.5	49.6
0°-60°	2456.6	82.7
0°-90°	2972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2972.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1256	1252	1242	1251	1249	119
15°	1194	1188	1168	1168	1159	337
25°	1083	1069	1034	1021	1011	498
35°	933	910	867	840	827	584
45°	764	736	684	646	632	589
55°	580	549	496	453	438	518
65°	392	360	310	272	257	389
75°	209	180	141	120	113	221
85°	52	35	30	29	29	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1258.0	1258.0	1258.0	1258.0	1258.0
2.5°	1260.8	1258.0	1248.5	1258.0	1256.9
5°	1256.0	1252.3	1241.8	1251.1	1249.2
7.5°	1246.5	1242.7	1230.3	1237.9	1236.1
10°	1232.3	1229.4	1216.0	1219.0	1216.0
12.5°	1216.0	1212.2	1193.1	1195.1	1190.5
15°	1194.4	1188.5	1168.5	1167.6	1159.1
17.5°	1171.5	1163.0	1139.0	1134.4	1127.7
20°	1143.8	1134.4	1104.0	1099.2	1090.7
22.5°	1113.5	1104.0	1071.9	1061.3	1054.4
25°	1083.0	1068.7	1033.6	1021.3	1010.9
27.5°	1049.0	1031.7	994.7	978.7	968.3
30°	1010.9	992.9	952.9	931.2	922.6
32.5°	973.7	952.0	911.2	886.5	875.2
35°	933.0	910.3	867.4	840.0	826.6
37.5°	894.1	866.4	822.7	790.6	777.0
40°	852.3	823.7	778.1	742.0	730.7
42.5°	808.4	779.0	731.4	697.4	679.2
45°	763.8	736.5	684.0	646.1	631.8
47.5°	717.1	688.9	636.4	597.6	581.4
50°	673.6	642.2	588.1	548.3	534.0
52.5°	626.0	593.9	543.3	499.6	485.4
55°	579.6	549.2	496.1	453.3	438.1
57.5°	532.1	499.6	448.5	406.6	393.4
60°	486.4	453.3	401.8	360.1	345.8
62.5°	438.1	406.6	354.4	316.3	302.1
65°	392.5	360.1	309.8	271.6	257.3
67.5°	346.7	314.6	265.9	230.0	218.7
70°	300.3	267.9	220.3	190.9	179.6
72.5°	254.7	223.3	179.6	153.0	146.5
75°	209.0	180.5	140.6	119.8	113.1
77.5°	162.3	139.6	106.3	90.4	84.6
80°	123.5	100.8	74.2	65.6	63.8
82.5°	85.5	65.6	49.5	46.4	45.6
85°	52.2	35.1	30.5	29.4	28.6
87.5°	22.0	15.2	14.3	14.3	13.2
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)