

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: P888203

Luminaire Tested: **DPT5-6FO44-37S27-A-XX-UDD**

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: P888203  
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: DPT5-6FO44-37S27-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

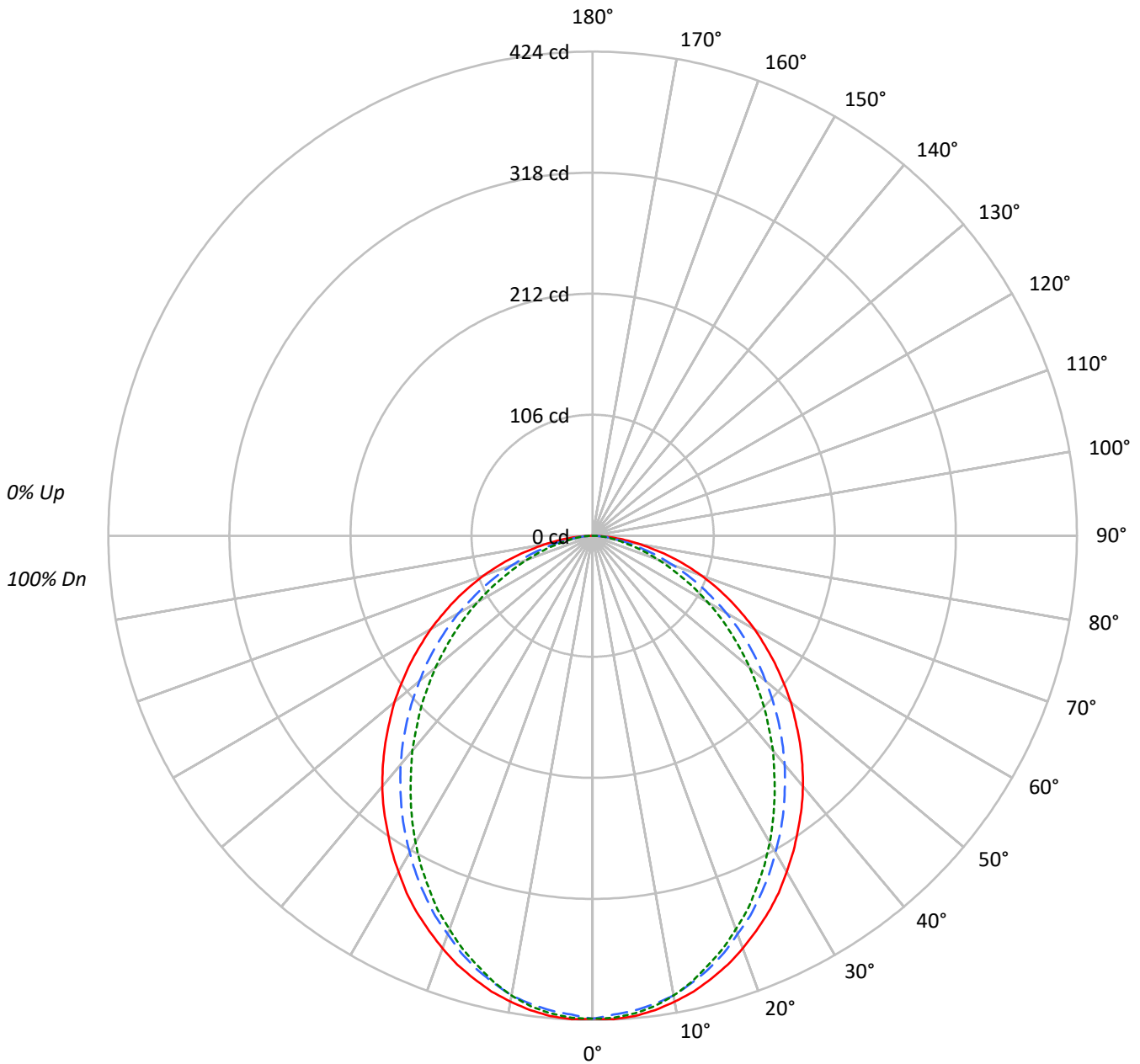
Lumens per Lamp: N/A  
Luminaire Lumens: 999.0 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.8  
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°	3269	3269	3269
5°	3276	3239	3259
10°	3251	3209	3209
15°	3213	3144	3118
20°	3163	3053	3016
25°	3105	2963	2898
30°	3033	2859	2768
35°	2960	2752	2622
40°	2891	2639	2479
45°	2806	2513	2322
50°	2723	2378	2159
55°	2626	2248	1985
60°	2528	2089	1797
65°	2413	1904	1582
70°	2281	1675	1365
75°	2100	1413	1135
80°	1848	1109	953
85°	1552	905	852



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.8	4.0
10°-20°	111.2	11.1
20°-30°	161.3	16.1
30°-40°	183.7	18.4
40°-50°	179.1	17.9
50°-60°	150.7	15.1
60°-70°	105.6	10.6
70°-80°	54.1	5.4
80°-90°	13.5	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°	312.3	31.3
0°-40°	496.0	49.6
0°-60°	825.7	82.7
0°-90°	999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	999.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	423	423	423	423	423	
5°	422	421	417	420	420	40
15°	402	400	393	392	390	113
25°	364	359	347	343	340	168
35°	314	306	292	282	278	196
45°	257	248	230	217	212	198
55°	195	185	167	152	147	174
65°	132	121	104	91	86	131
75°	70	61	47	40	38	74
85°	18	12	10	10	10	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	422.9	422.9	422.9	422.9	422.9
2.5°	423.8	422.9	419.7	422.9	422.5
5°	422.2	421.0	417.4	420.5	419.9
7.5°	419.0	417.7	413.6	416.1	415.5
10°	414.2	413.3	408.8	409.8	408.8
12.5°	408.8	407.5	401.1	401.7	400.2
15°	401.5	399.5	392.8	392.5	389.6
17.5°	393.8	390.9	382.9	381.3	379.1
20°	384.5	381.3	371.1	369.5	366.6
22.5°	374.3	371.1	360.3	356.7	354.4
25°	364.0	359.2	347.4	343.3	339.8
27.5°	352.6	346.8	334.4	329.0	325.5
30°	339.8	333.8	320.3	313.0	310.1
32.5°	327.3	320.0	306.3	298.0	294.2
35°	313.6	306.0	291.6	282.3	277.8
37.5°	300.5	291.2	276.5	265.8	261.2
40°	286.5	276.9	261.5	249.4	245.6
42.5°	271.7	261.8	245.8	234.4	228.3
45°	256.7	247.6	229.9	217.2	212.4
47.5°	241.0	231.6	213.9	200.9	195.4
50°	226.4	215.9	197.7	184.3	179.5
52.5°	210.4	199.6	182.6	167.9	163.1
55°	194.8	184.6	166.8	152.4	147.3
57.5°	178.8	167.9	150.8	136.7	132.2
60°	163.5	152.4	135.1	121.0	116.2
62.5°	147.3	136.7	119.1	106.3	101.5
65°	131.9	121.0	104.1	91.3	86.5
67.5°	116.5	105.7	89.4	77.3	73.5
70°	100.9	90.0	74.1	64.2	60.4
72.5°	85.6	75.1	60.4	51.4	49.2
75°	70.3	60.7	47.3	40.3	38.0
77.5°	54.6	46.9	35.7	30.4	28.4
80°	41.5	33.9	24.9	22.0	21.4
82.5°	28.7	22.0	16.6	15.6	15.3
85°	17.5	11.8	10.2	9.9	9.6
87.5°	7.4	5.1	4.8	4.8	4.4
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)