

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: P888206

Luminaire Tested: **DPT5-6FO44-37S40-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: P888206  
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: DPT5-6FO44-37S40-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

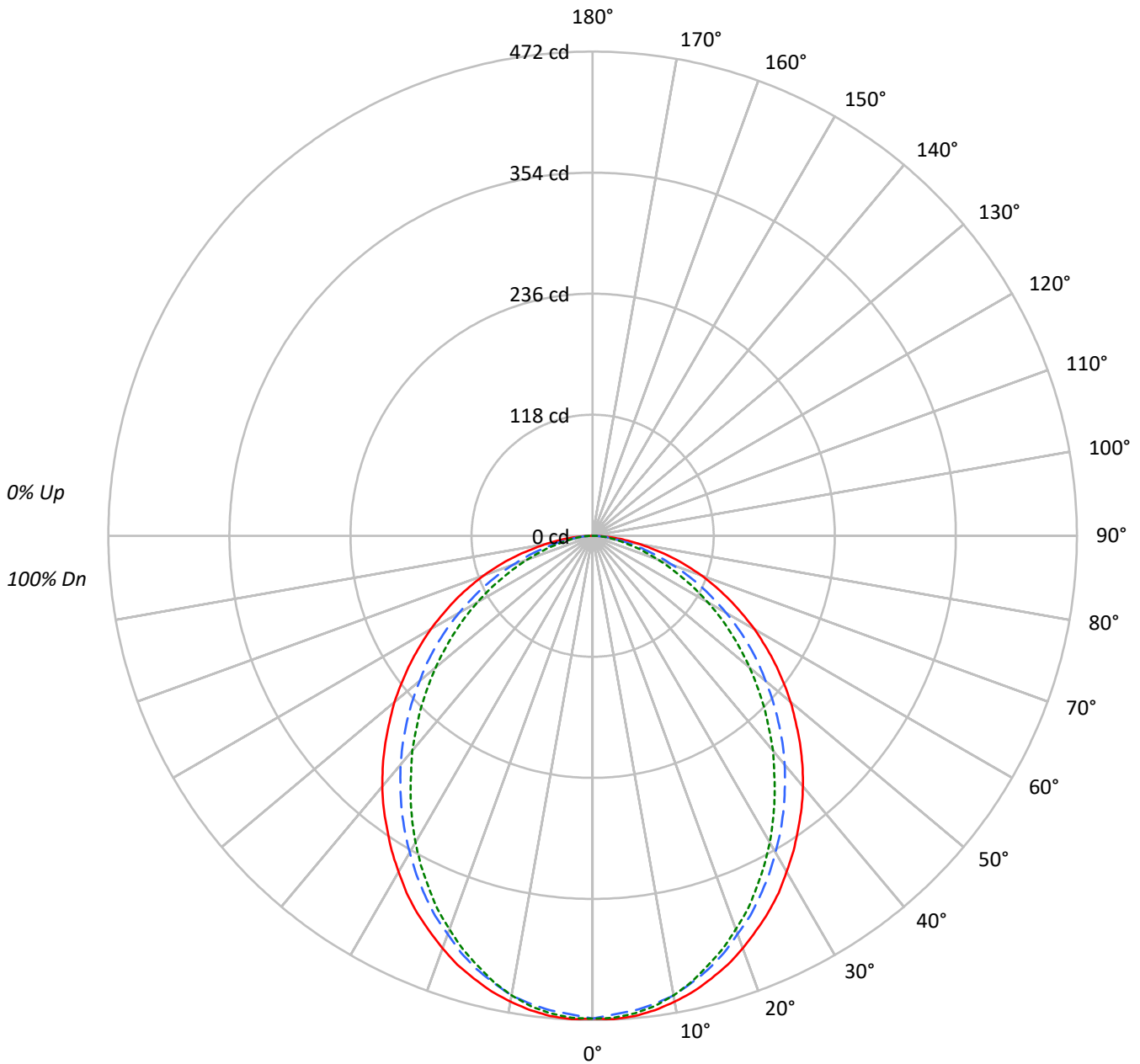
Lumens per Lamp: N/A  
Luminaire Lumens: 1112.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')  
CIE Type: Direct

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	30																			
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°	3639	3639	3639
5°	3647	3605	3627
10°	3620	3572	3572
15°	3577	3499	3471
20°	3521	3399	3357
25°	3456	3299	3226
30°	3376	3182	3082
35°	3295	3063	2919
40°	3218	2938	2759
45°	3125	2798	2585
50°	3031	2646	2403
55°	2923	2502	2209
60°	2814	2324	2001
65°	2687	2120	1762
70°	2541	1863	1519
75°	2336	1571	1263
80°	2057	1238	1064
85°	1730	1011	949



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.3	4.0
10°-20°	123.8	11.1
20°-30°	179.5	16.1
30°-40°	204.5	18.4
40°-50°	199.3	17.9
50°-60°	167.7	15.1
60°-70°	117.5	10.6
70°-80°	60.3	5.4
80°-90°	15.0	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°	347.6	31.3
0°-40°	552.1	49.7
0°-60°	919.1	82.7
0°-90°	1112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1112.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	471	471	471	471	471	
5°	470	469	465	468	467	45
15°	447	445	437	437	434	126
25°	405	400	387	382	378	186
35°	349	341	325	314	309	219
45°	286	276	256	242	236	220
55°	217	206	186	170	164	194
65°	147	135	116	102	96	145
75°	78	68	53	45	42	83
85°	20	13	11	11	11	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	470.7	470.7	470.7	470.7	470.7
2.5°	471.7	470.7	467.1	470.7	470.3
5°	470.0	468.6	464.6	468.1	467.4
7.5°	466.4	465.0	460.3	463.2	462.5
10°	461.1	460.0	455.0	456.1	455.0
12.5°	455.0	453.5	446.4	447.1	445.4
15°	446.9	444.7	437.2	436.9	433.7
17.5°	438.3	435.1	426.2	424.5	422.0
20°	428.0	424.5	413.1	411.3	408.1
22.5°	416.6	413.1	401.1	397.1	394.5
25°	405.2	399.9	386.7	382.1	378.2
27.5°	392.5	386.0	372.2	366.2	362.3
30°	378.2	371.5	356.5	348.4	345.2
32.5°	364.3	356.2	340.9	331.7	327.5
35°	349.1	340.6	324.6	314.3	309.3
37.5°	334.5	324.2	307.8	295.8	290.7
40°	318.9	308.2	291.1	277.6	273.4
42.5°	302.5	291.5	273.7	260.9	254.1
45°	285.8	275.6	255.9	241.7	236.4
47.5°	268.3	257.8	238.1	223.6	217.5
50°	252.0	240.3	220.0	205.1	199.8
52.5°	234.2	222.2	203.3	186.9	181.6
55°	216.9	205.5	185.6	169.6	163.9
57.5°	199.1	186.9	167.8	152.1	147.2
60°	182.0	169.6	150.3	134.7	129.4
62.5°	163.9	152.1	132.6	118.4	113.0
65°	146.9	134.7	115.9	101.6	96.3
67.5°	129.7	117.7	99.5	86.1	81.8
70°	112.4	100.2	82.4	71.4	67.2
72.5°	95.3	83.5	67.2	57.2	54.8
75°	78.2	67.5	52.6	44.8	42.3
77.5°	60.7	52.2	39.8	33.8	31.7
80°	46.2	37.7	27.8	24.5	23.9
82.5°	32.0	24.5	18.5	17.3	17.1
85°	19.5	13.1	11.4	11.0	10.7
87.5°	8.2	5.7	5.3	5.3	4.9
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)