

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: P888229

Luminaire Tested: **DPT5-6FO44-85V60-A-XX-UDD\_2700K**

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: P888229  
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: DPT5-6FO44-85V60-A-XX-UDD\_2700K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

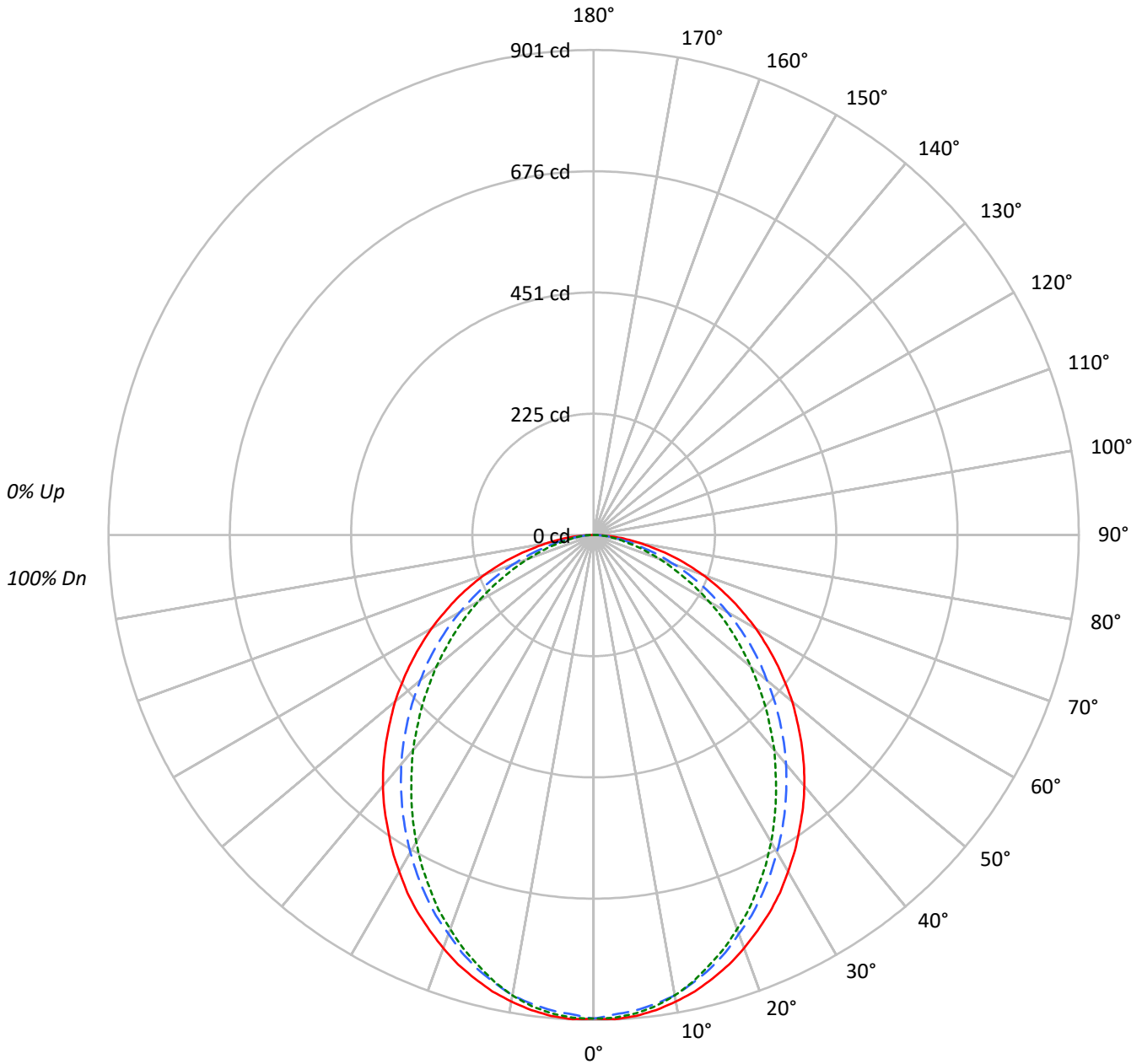
Lumens per Lamp: N/A  
Luminaire Lumens: 2123.0 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 24.8  
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°	6947	6947	6947
5°	6963	6883	6925
10°	6910	6819	6819
15°	6829	6681	6627
20°	6721	6488	6410
25°	6599	6299	6160
30°	6446	6076	5883
35°	6290	5848	5572
40°	6144	5609	5268
45°	5965	5342	4934
50°	5787	5053	4588
55°	5581	4777	4219
60°	5373	4437	3819
65°	5129	4048	3362
70°	4848	3558	2900
75°	4460	3002	2413
80°	3931	2360	2030
85°	3309	1934	1809



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	4.0
10°-20°	236.3	11.1
20°-30°	342.7	16.1
30°-40°	390.4	18.4
40°-50°	380.5	17.9
50°-60°	320.3	15.1
60°-70°	224.4	10.6
70°-80°	115.1	5.4
80°-90°	28.7	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°	663.6	31.3
0°-40°	1054.0	49.6
0°-60°	1754.8	82.7
0°-90°	2123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	897	895	887	894	892	85
15°	853	849	835	834	828	241
25°	774	763	738	730	722	356
35°	666	650	620	600	590	417
45°	546	526	489	462	451	421
55°	414	392	354	324	313	370
65°	280	257	221	194	184	278
75°	149	129	100	86	81	158
85°	37	25	22	21	20	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	898.6	898.6	898.6	898.6	898.6
2.5°	900.6	898.6	891.8	898.6	897.9
5°	897.2	894.6	887.0	893.7	892.3
7.5°	890.4	887.7	878.9	884.3	883.0
10°	880.2	878.2	868.7	870.8	868.7
12.5°	868.7	865.9	852.3	853.7	850.4
15°	853.2	849.0	834.7	834.0	828.0
17.5°	836.8	830.8	813.6	810.4	805.6
20°	817.0	810.4	788.6	785.2	779.2
22.5°	795.4	788.6	765.7	758.1	753.2
25°	773.6	763.4	738.4	729.5	722.1
27.5°	749.3	737.0	710.5	699.1	691.7
30°	722.1	709.3	680.7	665.2	659.0
32.5°	695.6	680.1	650.9	633.2	625.2
35°	666.5	650.2	619.6	600.0	590.4
37.5°	638.7	618.9	587.7	564.8	555.1
40°	608.8	588.4	555.8	530.0	522.0
42.5°	577.5	556.4	522.5	498.2	485.2
45°	545.6	526.1	488.6	461.5	451.3
47.5°	512.3	492.1	454.6	426.9	415.3
50°	481.2	458.8	420.1	391.7	381.5
52.5°	447.2	424.3	388.1	356.9	346.7
55°	414.1	392.3	354.4	323.8	313.0
57.5°	380.1	356.9	320.4	290.4	281.0
60°	347.5	323.8	287.0	257.2	247.0
62.5°	313.0	290.4	253.2	226.0	215.8
65°	280.4	257.2	221.3	194.0	183.8
67.5°	247.6	224.7	190.0	164.3	156.2
70°	214.5	191.4	157.4	136.3	128.3
72.5°	181.9	159.5	128.3	109.3	104.6
75°	149.3	128.9	100.5	85.6	80.8
77.5°	115.9	99.7	75.9	64.6	60.4
80°	88.3	72.0	53.0	46.8	45.6
82.5°	61.1	46.8	35.4	33.1	32.6
85°	37.3	25.1	21.8	21.0	20.4
87.5°	15.7	10.8	10.2	10.2	9.4
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)