

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: P888235

Luminaire Tested: **DPT5-6FO44-85V60-A-XX-UDD\_6500K**

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: P888235  
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\_6500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

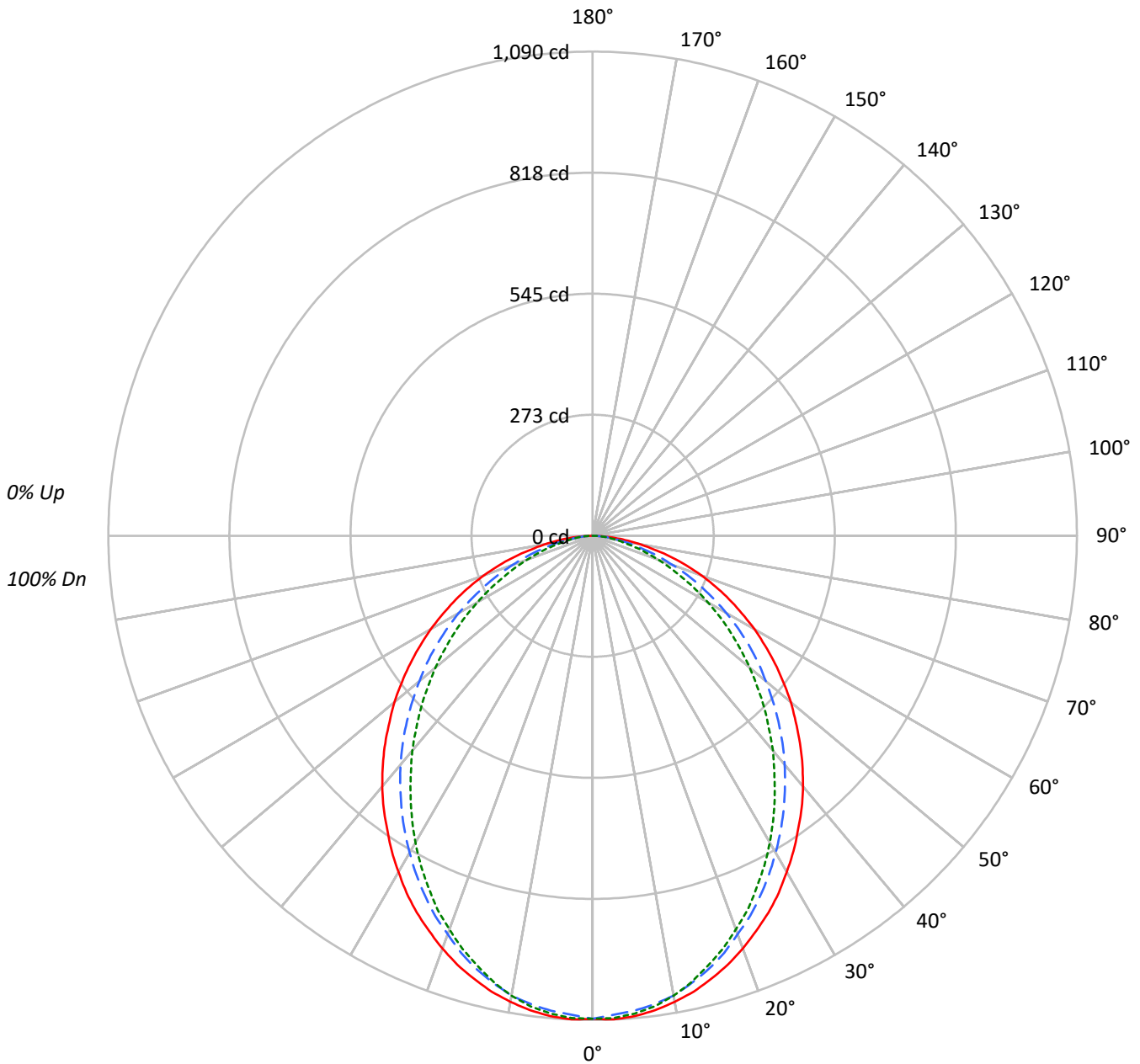
Lumens per Lamp: N/A  
Luminaire Lumens: 2569.0 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P888235

CATALOG NUMBER: DPT5-6FO44-85V60-A-XX-UDD\_6500K

### Luminous Intensity Polar Plot





TEST NUMBER: P888235

CATALOG NUMBER: DPT5-6FO44-85V60-A-XX-UDD\_6500K

**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°	8406	8406	8406
5°	8425	8330	8380
10°	8362	8251	8251
15°	8263	8084	8019
20°	8134	7851	7756
25°	7985	7622	7454
30°	7800	7353	7119
35°	7611	7076	6743
40°	7435	6788	6374
45°	7218	6464	5971
50°	7002	6115	5552
55°	6753	5779	5104
60°	6502	5370	4621
65°	6207	4899	4068
70°	5868	4304	3508
75°	5397	3632	2921
80°	4755	2854	2453
85°	4000	2342	2191



TEST NUMBER: P888235

CATALOG NUMBER: DPT5-6FO44-85V60-A-XX-UDD\_6500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.3	4.0
10°-20°	286.0	11.1
20°-30°	414.7	16.1
30°-40°	472.5	18.4
40°-50°	460.5	17.9
50°-60°	387.5	15.1
60°-70°	271.6	10.6
70°-80°	139.2	5.4
80°-90°	34.7	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°	803.0	31.3
0°-40°	1275.5	49.6
0°-60°	2123.5	82.7
0°-90°	2569.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2569.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1086	1082	1073	1082	1080	103
15°	1032	1027	1010	1009	1002	291
25°	936	924	894	883	874	431
35°	806	787	750	726	714	505
45°	660	637	591	558	546	509
55°	501	475	429	392	379	448
65°	339	311	268	235	222	336
75°	181	156	122	104	98	191
85°	45	30	26	25	25	52
90°	0	0	0	0	0	



TEST NUMBER: P888235

CATALOG NUMBER: DPT5-6FO44-85V60-A-XX-UDD\_6500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1087.4	1087.4	1087.4	1087.4	1087.4
2.5°	1089.8	1087.4	1079.2	1087.4	1086.5
5°	1085.7	1082.5	1073.4	1081.5	1079.8
7.5°	1077.5	1074.2	1063.5	1070.0	1068.5
10°	1065.2	1062.7	1051.1	1053.7	1051.1
12.5°	1051.1	1047.8	1031.3	1033.0	1029.1
15°	1032.4	1027.4	1010.0	1009.3	1001.9
17.5°	1012.6	1005.3	984.6	980.6	974.8
20°	988.7	980.6	954.3	950.1	942.8
22.5°	962.5	954.3	926.5	917.4	911.5
25°	936.1	923.8	893.5	882.8	873.8
27.5°	906.7	891.8	859.8	845.9	837.0
30°	873.8	858.3	823.7	805.0	797.5
32.5°	841.7	822.9	787.6	766.3	756.5
35°	806.5	786.8	749.8	726.1	714.5
37.5°	772.8	748.9	711.1	683.4	671.7
40°	736.7	712.0	672.6	641.4	631.6
42.5°	698.8	673.3	632.2	602.8	587.1
45°	660.2	636.6	591.2	558.5	546.1
47.5°	619.9	595.5	550.1	516.6	502.6
50°	582.2	555.1	508.4	473.9	461.6
52.5°	541.1	513.4	469.7	431.9	419.5
55°	501.0	474.7	428.8	391.8	378.7
57.5°	459.9	431.9	387.7	351.4	340.0
60°	420.5	391.8	347.3	311.2	298.9
62.5°	378.7	351.4	306.4	273.5	261.1
65°	339.3	311.2	267.8	234.8	222.4
67.5°	299.7	271.9	229.9	198.8	189.1
70°	259.6	231.6	190.4	165.0	155.2
72.5°	220.1	193.0	155.2	132.2	126.6
75°	180.7	156.0	121.6	103.6	97.8
77.5°	140.3	120.7	91.9	78.2	73.1
80°	106.8	87.1	64.1	56.7	55.1
82.5°	73.9	56.7	42.8	40.1	39.5
85°	45.1	30.3	26.4	25.4	24.7
87.5°	19.0	13.1	12.3	12.3	11.4
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)