

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: P888447

Luminaire Tested: **DPT5-6FO36-85S35-F-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: P888447  
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: DPT5-6FO36-85S35-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

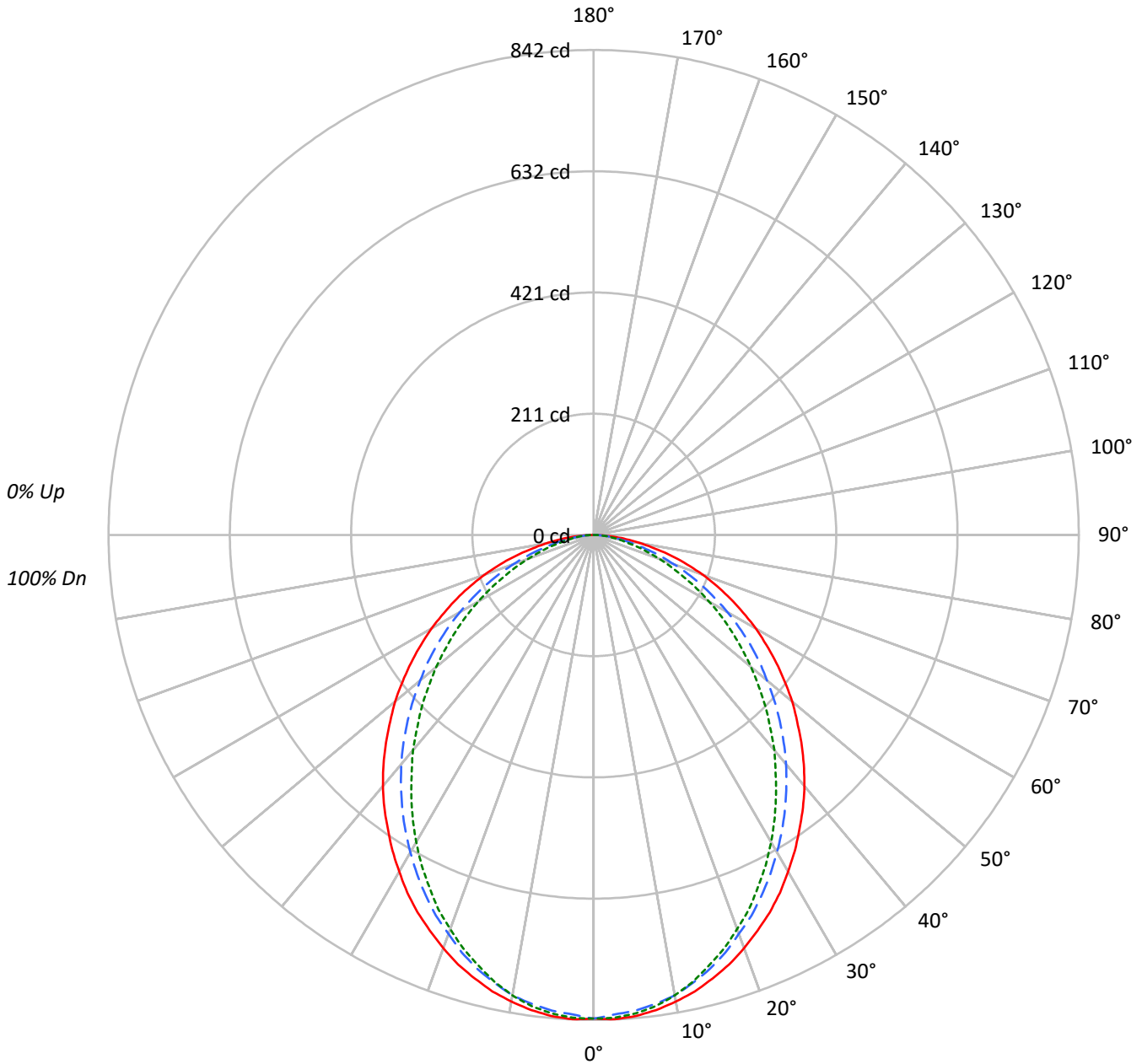
Lumens per Lamp: N/A  
Luminaire Lumens: 1984.0 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.1  
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: P888447

CATALOG NUMBER: DPT5-6FO36-85S35-F-XX-UDD

### Luminous Intensity Polar Plot





TEST NUMBER: P888447

CATALOG NUMBER: DPT5-6FO36-85S35-F-XX-UDD

**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°	7987	7987	7987
5°	8005	7914	7961
10°	7944	7840	7840
15°	7850	7680	7619
20°	7727	7459	7369
25°	7587	7241	7081
30°	7411	6986	6764
35°	7231	6723	6407
40°	7064	6448	6056
45°	6858	6141	5673
50°	6654	5809	5275
55°	6417	5492	4850
60°	6176	5101	4390
65°	5896	4654	3866
70°	5575	4090	3334
75°	5126	3450	2774
80°	4518	2711	2333
85°	3797	2226	2084



TEST NUMBER: P888447

CATALOG NUMBER: DPT5-6FO36-85S35-F-XX-UDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.0	4.0
10°-20°	220.9	11.1
20°-30°	320.2	16.1
30°-40°	364.9	18.4
40°-50°	355.6	17.9
50°-60°	299.3	15.1
60°-70°	209.7	10.6
70°-80°	107.5	5.4
80°-90°	26.8	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°	620.1	31.3
0°-40°	985.0	49.6
0°-60°	1639.9	82.7
0°-90°	1984.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1984.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	840	840	840	840	840	
5°	838	836	829	835	834	80
15°	797	793	780	779	774	225
25°	723	713	690	682	675	333
35°	623	608	579	561	552	390
45°	510	492	457	431	422	393
55°	387	367	331	303	292	346
65°	262	240	207	181	172	259
75°	140	120	94	80	76	147
85°	35	23	20	20	19	40
90°	0	0	0	0	0	



TEST NUMBER: P888447

CATALOG NUMBER: DPT5-6FO36-85S35-F-XX-UDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	839.8	839.8	839.8	839.8	839.8
2.5°	841.7	839.8	833.4	839.8	839.1
5°	838.5	836.0	829.0	835.2	833.9
7.5°	832.1	829.6	821.3	826.4	825.2
10°	822.6	820.7	811.8	813.8	811.8
12.5°	811.8	809.2	796.5	797.8	794.7
15°	797.3	793.4	780.0	779.4	773.8
17.5°	782.0	776.4	760.4	757.3	752.8
20°	763.5	757.3	737.0	733.8	728.1
22.5°	743.3	737.0	715.5	708.5	703.9
25°	723.0	713.4	690.0	681.8	674.8
27.5°	700.3	688.7	664.0	653.3	646.4
30°	674.8	662.8	636.1	621.7	615.9
32.5°	650.0	635.5	608.3	591.8	584.3
35°	622.8	607.7	579.1	560.7	551.8
37.5°	596.8	578.4	549.2	527.8	518.7
40°	569.0	549.9	519.4	495.3	487.8
42.5°	539.7	520.0	488.2	465.5	453.4
45°	509.9	491.7	456.6	431.3	421.8
47.5°	478.7	459.9	424.8	399.0	388.1
50°	449.7	428.7	392.6	366.0	356.5
52.5°	417.9	396.5	362.7	333.5	324.0
55°	387.0	366.6	331.2	302.6	292.5
57.5°	355.2	333.5	299.4	271.4	262.6
60°	324.7	302.6	268.2	240.4	230.8
62.5°	292.5	271.4	236.6	211.2	201.7
65°	262.0	240.4	206.8	181.3	171.8
67.5°	231.4	210.0	177.5	153.5	146.0
70°	200.5	178.8	147.1	127.4	119.9
72.5°	170.0	149.1	119.9	102.1	97.8
75°	139.5	120.5	93.9	80.0	75.5
77.5°	108.4	93.2	70.9	60.4	56.5
80°	82.5	67.3	49.5	43.8	42.6
82.5°	57.1	43.8	33.1	30.9	30.5
85°	34.8	23.4	20.4	19.6	19.1
87.5°	14.7	10.1	9.5	9.5	8.8
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)