

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: P888178

Luminaire Tested: **DPT5-6FO36-85V60-A-XX-UDD\_4500K**

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: P888178  
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: DPT5-6FO36-85V60-A-XX-UDD\_4500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

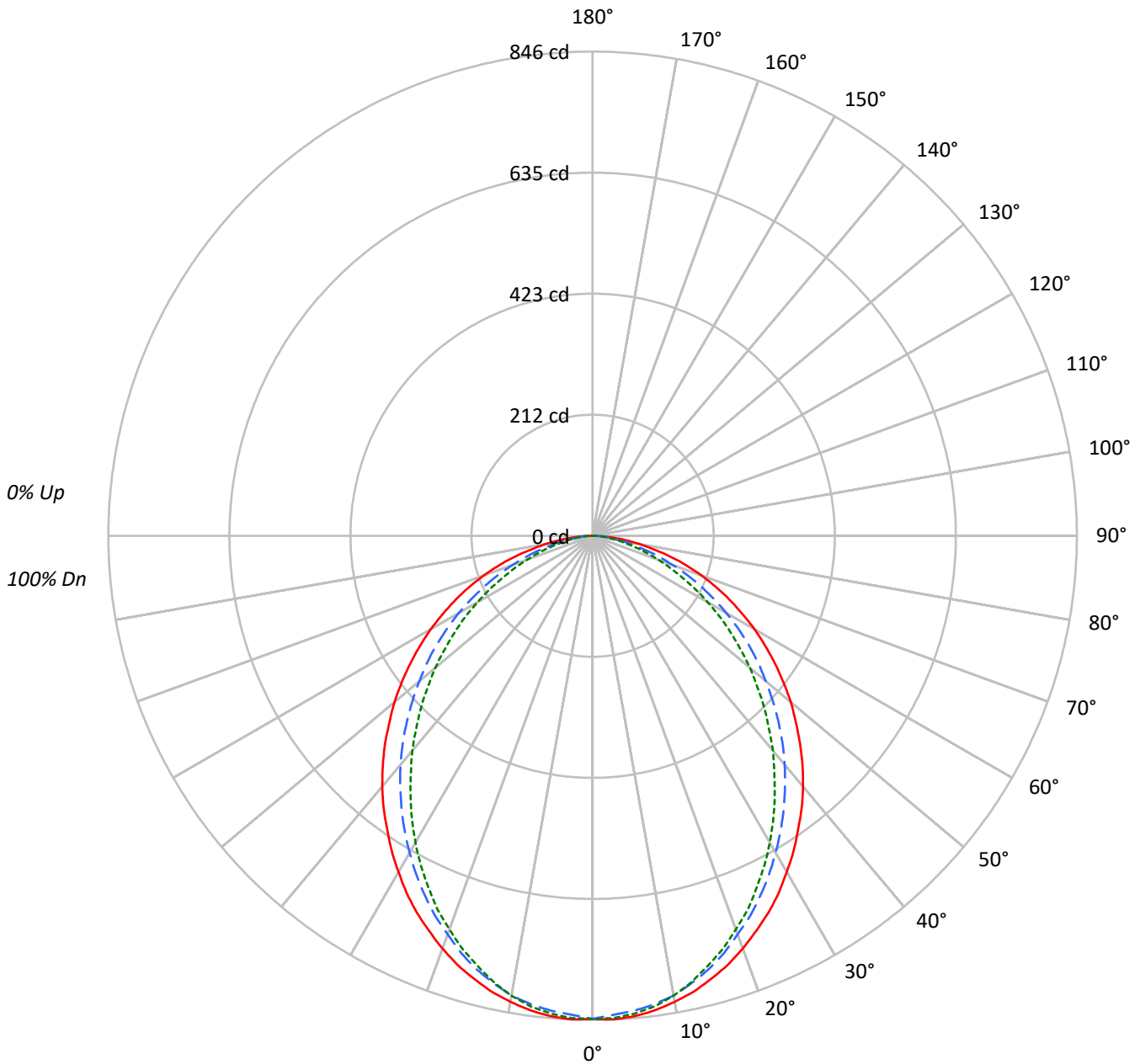
Lumens per Lamp: N/A  
Luminaire Lumens: 1994.0 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.9' x L: 0.39' x H: 0')  
CIE Type: Direct

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: P888178

CATALOG NUMBER: DPT5-6FO36-85V60-A-XX-UDD\_4500K

### Luminous Intensity Polar Plot





TEST NUMBER: P888178

CATALOG NUMBER: DPT5-6FO36-85V60-A-XX-UDD\_4500K

**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°	8027	8027	8027
5°	8045	7954	8001
10°	7985	7879	7879
15°	7890	7719	7657
20°	7767	7497	7406
25°	7625	7277	7117
30°	7448	7021	6798
35°	7268	6757	6439
40°	7099	6481	6086
45°	6893	6172	5701
50°	6686	5838	5301
55°	6448	5520	4875
60°	6208	5128	4413
65°	5925	4679	3884
70°	5603	4110	3351
75°	5152	3469	2789
80°	4540	2727	2344
85°	3819	2237	2095



TEST NUMBER: P888178

CATALOG NUMBER: DPT5-6FO36-85V60-A-XX-UDD\_4500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.4	4.0
10°-20°	222.0	11.1
20°-30°	321.9	16.1
30°-40°	366.7	18.4
40°-50°	357.4	17.9
50°-60°	300.8	15.1
60°-70°	210.8	10.6
70°-80°	108.1	5.4
80°-90°	27.0	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°	623.3	31.3
0°-40°	990.0	49.6
0°-60°	1648.2	82.7
0°-90°	1994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1994.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	843	840	833	839	838	80
15°	801	797	784	783	778	226
25°	727	717	694	685	678	334
35°	626	611	582	564	555	392
45°	512	494	459	434	424	395
55°	389	368	333	304	294	348
65°	263	242	208	182	173	261
75°	140	121	94	80	76	148
85°	35	24	20	20	19	40
90°	0	0	0	0	0	



TEST NUMBER: P888178

CATALOG NUMBER: DPT5-6FO36-85V60-A-XX-UDD\_4500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	844.0	844.0	844.0	844.0	844.0
2.5°	845.9	844.0	837.6	844.0	843.3
5°	842.7	840.2	833.1	839.4	838.1
7.5°	836.3	833.7	825.5	830.5	829.4
10°	826.8	824.9	815.9	817.9	815.9
12.5°	815.9	813.3	800.5	801.8	798.7
15°	801.3	797.4	784.0	783.4	777.7
17.5°	786.0	780.3	764.2	761.1	756.6
20°	767.4	761.1	740.7	737.5	731.8
22.5°	747.1	740.7	719.2	712.1	707.4
25°	726.6	717.0	693.5	685.2	678.2
27.5°	703.8	692.2	667.4	656.6	649.6
30°	678.2	666.2	639.3	624.8	619.0
32.5°	653.3	638.7	611.3	594.8	587.2
35°	626.0	610.7	582.0	563.5	554.6
37.5°	599.8	581.3	552.0	530.4	521.3
40°	571.8	552.7	522.0	497.8	490.2
42.5°	542.4	522.6	490.7	467.9	455.7
45°	512.5	494.1	458.9	433.5	423.9
47.5°	481.1	462.2	427.0	401.0	390.1
50°	451.9	430.9	394.6	367.9	358.3
52.5°	420.0	398.5	364.5	335.2	325.6
55°	388.9	368.4	332.9	304.1	294.0
57.5°	357.0	335.2	300.9	272.8	263.9
60°	326.4	304.1	269.6	241.6	232.0
62.5°	294.0	272.8	237.8	212.2	202.7
65°	263.3	241.6	207.9	182.2	172.6
67.5°	232.6	211.1	178.4	154.3	146.7
70°	201.5	179.7	147.8	128.1	120.5
72.5°	170.9	149.8	120.5	102.6	98.3
75°	140.2	121.1	94.4	80.4	75.9
77.5°	108.9	93.6	71.3	60.7	56.8
80°	82.9	67.6	49.8	44.0	42.8
82.5°	57.3	44.0	33.2	31.1	30.6
85°	35.0	23.5	20.5	19.7	19.2
87.5°	14.8	10.2	9.6	9.6	8.9
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)