

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: P888220

Luminaire Tested: **DPT5-6FO44-61V60-A-XX-UDD\_3500K**

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: P888220  
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: DPT5-6FO44-61V60-A-XX-UDD\_3500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

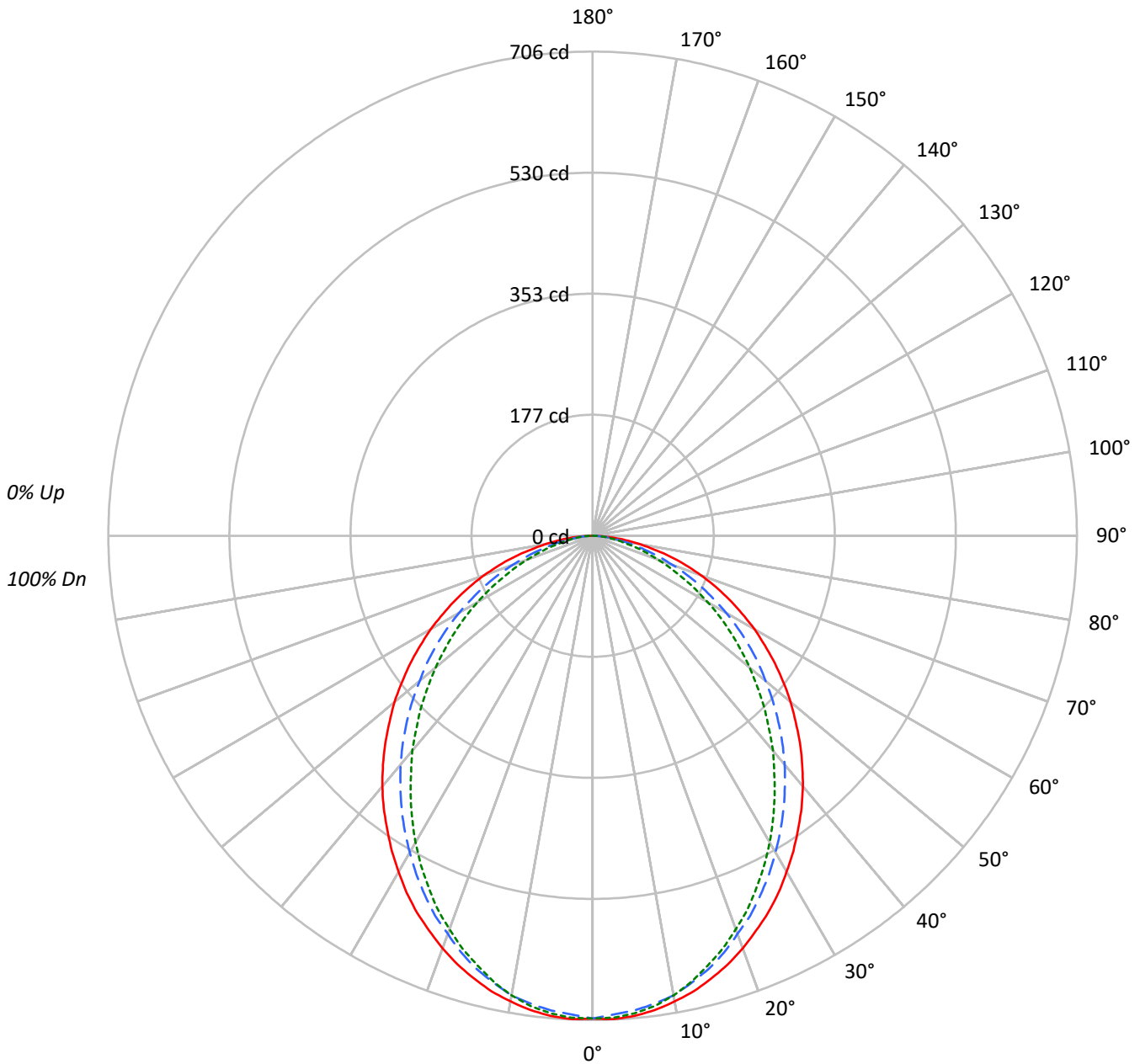
Lumens per Lamp: N/A  
Luminaire Lumens: 1663.0 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.8  
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					20					
RC	80					70					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°	5442	5442	5442
5°	5454	5392	5424
10°	5413	5341	5341
15°	5349	5233	5191
20°	5265	5082	5021
25°	5169	4934	4825
30°	5050	4760	4608
35°	4927	4581	4365
40°	4813	4394	4127
45°	4673	4184	3865
50°	4533	3958	3594
55°	4371	3742	3305
60°	4209	3476	2992
65°	4017	3172	2634
70°	3797	2787	2272
75°	3495	2351	1891
80°	3076	1848	1589
85°	2590	1517	1419



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.2	4.0
10°-20°	185.1	11.1
20°-30°	268.4	16.1
30°-40°	305.8	18.4
40°-50°	298.1	17.9
50°-60°	250.9	15.1
60°-70°	175.8	10.6
70°-80°	90.1	5.4
80°-90°	22.5	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°	519.8	31.3
0°-40°	825.6	49.6
0°-60°	1374.6	82.7
0°-90°	1663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1663.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	703	701	695	700	699	67
15°	668	665	654	653	649	188
25°	606	598	578	572	566	279
35°	522	509	485	470	462	327
45°	427	412	383	362	354	330
55°	324	307	278	254	245	290
65°	220	202	173	152	144	217
75°	117	101	79	67	63	124
85°	29	20	17	16	16	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	703.9	703.9	703.9	703.9	703.9
2.5°	705.5	703.9	698.6	703.9	703.3
5°	702.8	700.8	694.8	700.1	699.0
7.5°	697.5	695.3	688.4	692.7	691.7
10°	689.5	687.9	680.4	682.1	680.4
12.5°	680.4	678.3	667.6	668.7	666.1
15°	668.3	665.1	653.8	653.3	648.6
17.5°	655.5	650.8	637.3	634.8	631.0
20°	640.0	634.8	617.7	615.1	610.3
22.5°	623.0	617.7	599.8	593.9	590.0
25°	606.0	598.0	578.4	571.5	565.7
27.5°	587.0	577.3	556.6	547.6	541.8
30°	565.7	555.6	533.2	521.1	516.2
32.5°	544.8	532.7	509.8	496.0	489.7
35°	522.1	509.3	485.4	470.0	462.5
37.5°	500.3	484.8	460.3	442.4	434.8
40°	476.9	460.9	435.4	415.2	408.9
42.5°	452.3	435.9	409.3	390.2	380.1
45°	427.4	412.1	382.7	361.5	353.5
47.5°	401.3	385.5	356.1	334.4	325.3
50°	376.9	359.4	329.1	306.8	298.8
52.5°	350.3	332.3	304.0	279.6	271.6
55°	324.3	307.3	277.6	253.6	245.2
57.5°	297.7	279.6	251.0	227.5	220.1
60°	272.2	253.6	224.8	201.5	193.5
62.5°	245.2	227.5	198.3	177.0	169.0
65°	219.6	201.5	173.4	152.0	144.0
67.5°	194.0	176.0	148.8	128.7	122.4
70°	168.0	149.9	123.3	106.8	100.5
72.5°	142.5	124.9	100.5	85.6	81.9
75°	117.0	101.0	78.7	67.1	63.3
77.5°	90.8	78.1	59.5	50.6	47.3
80°	69.1	56.4	41.5	36.7	35.7
82.5°	47.8	36.7	27.7	25.9	25.5
85°	29.2	19.6	17.1	16.5	16.0
87.5°	12.3	8.5	8.0	8.0	7.4
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)