

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: P888237

Luminaire Tested: **DPT5-6FO55-109S30-A-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: P888237  
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: DPT5-6FO55-109S30-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

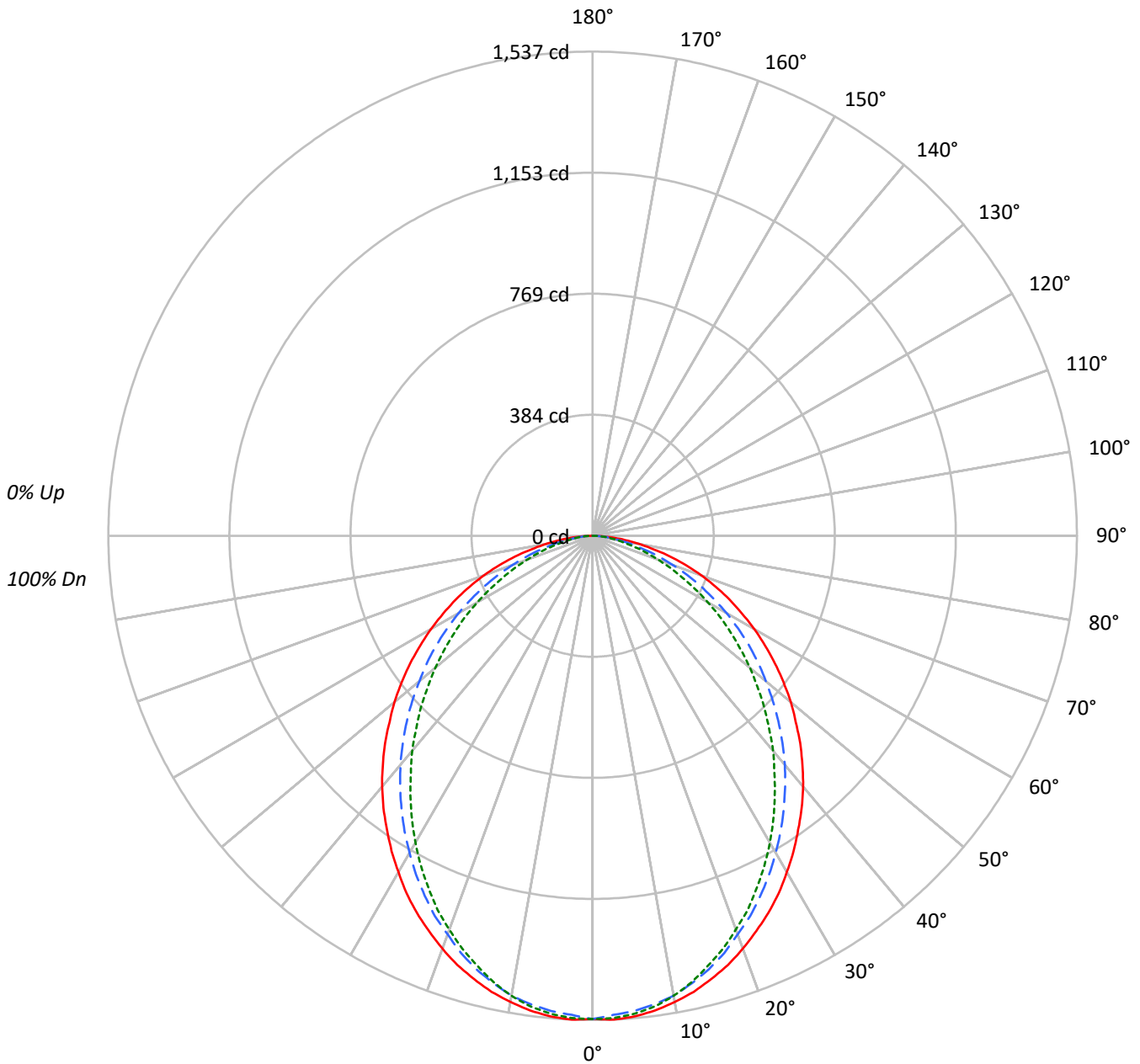
Lumens per Lamp: N/A  
Luminaire Lumens: 3624.0 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 38.6  
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: P888237

CATALOG NUMBER: DPT5-6FO55-109S30-A-XX-UDD

### Luminous Intensity Polar Plot





TEST NUMBER: P888237

CATALOG NUMBER: DPT5-6FO55-109S30-A-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°	9797	9797	9797
5°	9819	9707	9765
10°	9744	9616	9616
15°	9629	9420	9345
20°	9479	9148	9039
25°	9306	8881	8686
30°	9090	8569	8296
35°	8870	8246	7858
40°	8664	7910	7428
45°	8412	7532	6958
50°	8161	7125	6470
55°	7870	6735	5948
60°	7575	6259	5385
65°	7232	5709	4742
70°	6838	5015	4089
75°	6290	4232	3405
80°	5539	3328	2861
85°	4660	2726	2550



TEST NUMBER: P888237

CATALOG NUMBER: DPT5-6FO55-109S30-A-XX-UDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.4	4.0
10°-20°	403.4	11.1
20°-30°	585.0	16.1
30°-40°	666.5	18.4
40°-50°	649.6	17.9
50°-60°	546.7	15.1
60°-70°	383.1	10.6
70°-80°	196.4	5.4
80°-90°	49.0	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°	1132.8	31.3
0°-40°	1799.2	49.6
0°-60°	2995.5	82.7
0°-90°	3624.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3624.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1534	1534	1534	1534	1534	
5°	1532	1527	1514	1526	1523	145
15°	1456	1449	1425	1424	1413	411
25°	1321	1303	1260	1245	1233	608
35°	1138	1110	1058	1024	1008	712
45°	931	898	834	788	770	718
55°	707	670	605	553	534	632
65°	479	439	378	331	314	474
75°	255	220	172	146	138	269
85°	64	43	37	36	35	73
90°	0	0	0	0	0	



TEST NUMBER: P888237

CATALOG NUMBER: DPT5-6FO55-109S30-A-XX-UDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1534.0	1534.0	1534.0	1534.0	1534.0
2.5°	1537.4	1534.0	1522.4	1534.0	1532.7
5°	1531.6	1527.1	1514.2	1525.6	1523.2
7.5°	1520.0	1515.3	1500.2	1509.5	1507.3
10°	1502.6	1499.2	1482.8	1486.5	1482.8
12.5°	1482.8	1478.1	1454.9	1457.2	1451.7
15°	1456.4	1449.3	1424.8	1423.7	1413.4
17.5°	1428.4	1418.1	1388.9	1383.3	1375.2
20°	1394.7	1383.3	1346.1	1340.3	1330.0
22.5°	1357.7	1346.1	1307.0	1294.1	1285.8
25°	1320.6	1303.2	1260.4	1245.4	1232.7
27.5°	1279.1	1258.0	1212.9	1193.3	1180.7
30°	1232.7	1210.8	1162.0	1135.5	1125.0
32.5°	1187.3	1160.9	1111.0	1081.0	1067.2
35°	1137.7	1110.0	1057.7	1024.2	1007.9
37.5°	1090.2	1056.5	1003.2	964.0	947.5
40°	1039.3	1004.4	948.8	904.7	891.0
42.5°	985.8	949.9	891.8	850.4	828.2
45°	931.4	898.1	834.0	787.8	770.4
47.5°	874.4	840.0	776.0	728.7	709.0
50°	821.4	783.1	717.1	668.6	651.2
52.5°	763.3	724.2	662.5	609.2	591.8
55°	706.8	669.6	604.9	552.7	534.2
57.5°	648.8	609.2	546.9	495.8	479.7
60°	593.1	552.7	490.0	439.0	421.6
62.5°	534.2	495.8	432.2	385.7	368.3
65°	478.6	439.0	377.8	331.2	313.8
67.5°	422.7	383.6	324.3	280.4	266.7
70°	366.2	326.7	268.6	232.7	219.0
72.5°	310.5	272.3	219.0	186.5	178.6
75°	254.9	220.1	171.5	146.1	138.0
77.5°	197.9	170.2	129.6	110.2	103.2
80°	150.6	122.9	90.5	79.9	77.8
82.5°	104.2	79.9	60.4	56.5	55.7
85°	63.6	42.8	37.2	35.9	34.8
87.5°	26.9	18.5	17.4	17.4	16.1
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)