

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: P888244

Luminaire Tested: **DPT5-6FO55-109V60-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: P888244  
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: DPT5-6FO55-109V60-A-XX-UDD\_4500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

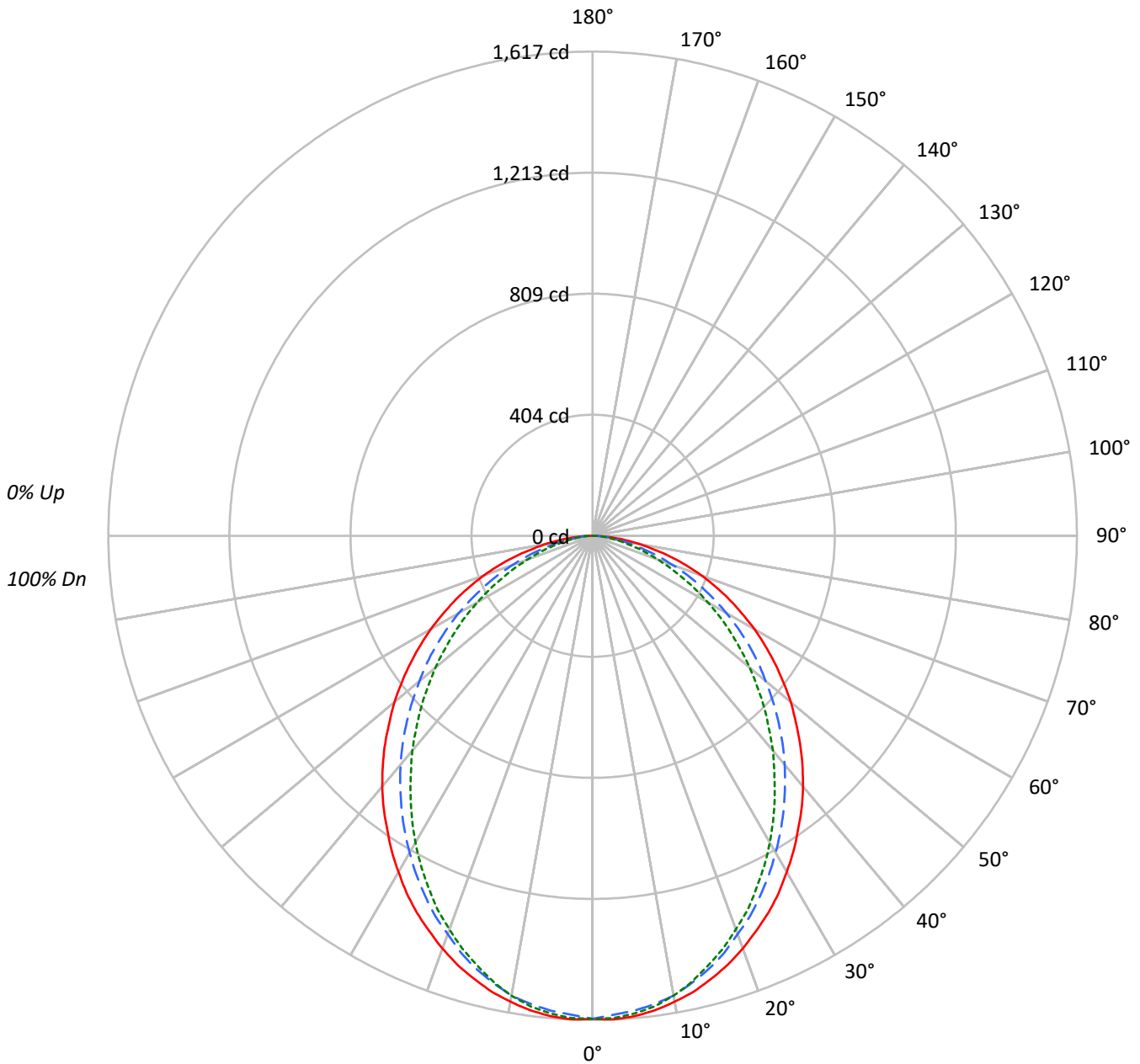
Lumens per Lamp: N/A  
Luminaire Lumens: 3811.0 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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: P888244

CATALOG NUMBER: DPT5-6FO55-109V60-A-XX-UDD\_4500K

### Luminous Intensity Polar Plot





TEST NUMBER: P888244

CATALOG NUMBER: DPT5-6FO55-109V60-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°	10302	10302	10302
5°	10325	10208	10269
10°	10247	10112	10112
15°	10126	9906	9827
20°	9968	9621	9506
25°	9785	9339	9134
30°	9559	9011	8725
35°	9327	8672	8263
40°	9111	8318	7812
45°	8846	7922	7317
50°	8581	7492	6804
55°	8276	7084	6255
60°	7966	6582	5663
65°	7606	6004	4985
70°	7191	5275	4300
75°	6613	4449	3580
80°	5826	3498	3008
85°	4902	2865	2682



TEST NUMBER: P888244

CATALOG NUMBER: DPT5-6FO55-109V60-A-XX-UDD\_4500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.8	4.0
10°-20°	424.2	11.1
20°-30°	615.2	16.1
30°-40°	700.9	18.4
40°-50°	683.1	17.9
50°-60°	574.9	15.1
60°-70°	402.9	10.6
70°-80°	206.6	5.4
80°-90°	51.5	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°	1191.2	31.3
0°-40°	1892.1	49.6
0°-60°	3150.1	82.7
0°-90°	3811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3811.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1613	1613	1613	1613	1613	
5°	1611	1606	1592	1604	1602	153
15°	1532	1524	1498	1497	1486	432
25°	1389	1370	1325	1310	1296	639
35°	1196	1167	1112	1077	1060	749
45°	979	944	877	828	810	755
55°	743	704	636	581	562	665
65°	503	462	397	348	330	498
75°	268	231	180	154	145	283
85°	67	45	39	38	37	77
90°	0	0	0	0	0	



TEST NUMBER: P888244

CATALOG NUMBER: DPT5-6FO55-109V60-A-XX-UDD\_4500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1613.1	1613.1	1613.1	1613.1	1613.1
2.5°	1616.7	1613.1	1600.9	1613.1	1611.8
5°	1610.6	1605.9	1592.3	1604.3	1601.8
7.5°	1598.4	1593.5	1577.6	1587.4	1585.1
10°	1580.1	1576.5	1559.3	1563.2	1559.3
12.5°	1559.3	1554.4	1530.0	1532.4	1526.6
15°	1531.5	1524.1	1498.3	1497.2	1486.3
17.5°	1502.2	1491.3	1460.6	1454.7	1446.1
20°	1466.7	1454.7	1415.6	1409.5	1398.7
22.5°	1427.8	1415.6	1374.5	1360.9	1352.1
25°	1388.7	1370.4	1325.4	1309.6	1296.3
27.5°	1345.1	1322.9	1275.5	1254.9	1241.6
30°	1296.3	1273.2	1221.9	1194.1	1183.1
32.5°	1248.6	1220.8	1168.4	1136.7	1122.3
35°	1196.4	1167.2	1112.3	1077.1	1059.9
37.5°	1146.4	1111.0	1054.9	1013.8	996.4
40°	1092.9	1056.3	997.7	951.4	937.0
42.5°	1036.6	998.9	937.9	894.2	871.0
45°	979.4	944.4	877.1	828.5	810.2
47.5°	919.6	883.4	816.1	766.3	745.5
50°	863.7	823.5	754.1	703.1	684.8
52.5°	802.7	761.6	696.7	640.7	622.4
55°	743.3	704.2	636.2	581.2	561.8
57.5°	682.3	640.7	575.1	521.4	504.4
60°	623.7	581.2	515.3	461.7	443.4
62.5°	561.8	521.4	454.5	405.7	387.3
65°	503.3	461.7	397.3	348.3	329.9
67.5°	444.5	403.4	341.0	294.9	280.5
70°	385.1	343.5	282.5	244.7	230.3
72.5°	326.6	286.3	230.3	196.2	187.8
75°	268.0	231.4	180.3	153.7	145.1
77.5°	208.1	179.0	136.3	115.9	108.5
80°	158.4	129.3	95.1	84.1	81.8
82.5°	109.6	84.1	63.5	59.4	58.5
85°	66.9	45.0	39.1	37.7	36.6
87.5°	28.2	19.4	18.3	18.3	16.9
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)