

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: P888521

Luminaire Tested: **DPT5-6FO55-109V60-F-XX-UDD\_6500K**

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: P888521  
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-F-XX-UDD\_6500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

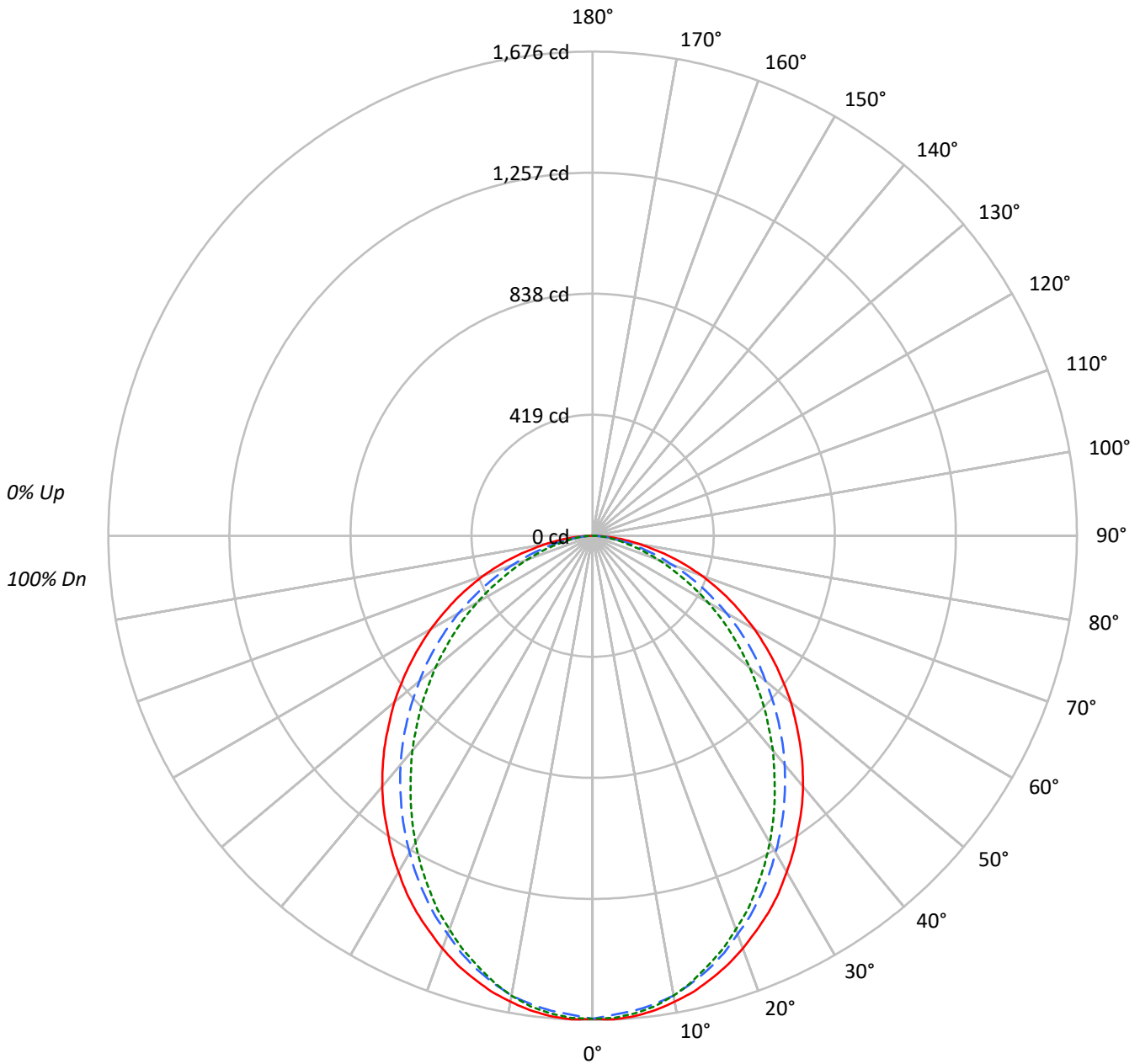
Lumens per Lamp: N/A  
Luminaire Lumens: 3950.0 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot





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**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°	10678	10678	10678
5°	10702	10580	10643
10°	10621	10481	10481
15°	10495	10268	10186
20°	10332	9971	9852
25°	10143	9680	9468
30°	9908	9340	9042
35°	9667	8988	8565
40°	9444	8621	8096
45°	9169	8211	7584
50°	8894	7765	7051
55°	8578	7342	6483
60°	8257	6822	5870
65°	7882	6223	5168
70°	7452	5467	4457
75°	6855	4612	3711
80°	6039	3626	3119
85°	5078	2968	2777



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.4	4.0
10°-20°	439.7	11.1
20°-30°	637.6	16.1
30°-40°	726.4	18.4
40°-50°	708.0	17.9
50°-60°	595.9	15.1
60°-70°	417.5	10.6
70°-80°	214.1	5.4
80°-90°	53.4	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°	1234.7	31.3
0°-40°	1961.1	49.6
0°-60°	3265.0	82.7
0°-90°	3950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3950.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1669	1664	1650	1663	1660	158
15°	1587	1580	1553	1552	1541	448
25°	1439	1420	1374	1357	1344	662
35°	1240	1210	1153	1116	1099	776
45°	1015	979	909	859	840	783
55°	770	730	659	602	582	689
65°	522	478	412	361	342	516
75°	278	240	187	159	150	294
85°	69	47	40	39	38	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1672.0	1672.0	1672.0	1672.0	1672.0
2.5°	1675.7	1672.0	1659.3	1672.0	1670.5
5°	1669.4	1664.5	1650.4	1662.8	1660.2
7.5°	1656.7	1651.6	1635.2	1645.3	1642.9
10°	1637.8	1634.0	1616.2	1620.2	1616.2
12.5°	1616.2	1611.1	1585.8	1588.3	1582.2
15°	1587.4	1579.7	1553.0	1551.8	1540.6
17.5°	1556.9	1545.7	1513.8	1507.8	1498.9
20°	1520.2	1507.8	1467.2	1460.9	1449.7
22.5°	1479.9	1467.2	1424.6	1410.6	1401.4
25°	1439.4	1420.4	1373.8	1357.4	1343.6
27.5°	1394.2	1371.2	1322.0	1300.7	1286.9
30°	1343.6	1319.7	1266.5	1237.7	1226.2
32.5°	1294.1	1265.3	1211.0	1178.2	1163.2
35°	1240.0	1209.8	1152.9	1116.4	1098.6
37.5°	1188.3	1151.5	1093.4	1050.8	1032.7
40°	1132.8	1094.8	1034.1	986.1	971.1
42.5°	1074.4	1035.3	972.1	926.9	902.7
45°	1015.2	978.9	909.1	858.7	839.7
47.5°	953.1	915.6	845.8	794.3	772.7
50°	895.2	853.5	781.6	728.7	709.7
52.5°	832.0	789.4	722.1	664.1	645.1
55°	770.4	729.9	659.4	602.4	582.3
57.5°	707.1	664.1	596.1	540.4	522.8
60°	646.5	602.4	534.1	478.5	459.6
62.5°	582.3	540.4	471.0	420.4	401.5
65°	521.6	478.5	411.8	361.0	342.0
67.5°	460.7	418.1	353.5	305.7	290.7
70°	399.1	356.0	292.8	253.7	238.7
72.5°	338.5	296.8	238.7	203.3	194.6
75°	277.8	239.9	186.9	159.3	150.4
77.5°	215.7	185.5	141.2	120.2	112.4
80°	164.2	134.0	98.6	87.1	84.8
82.5°	113.6	87.1	65.8	61.6	60.7
85°	69.3	46.6	40.5	39.1	37.9
87.5°	29.3	20.1	19.0	19.0	17.6
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)