

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: P888236

Luminaire Tested: **DPT5-6FO55-109S27-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: P888236  
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: DPT5-6FO55-109S27-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

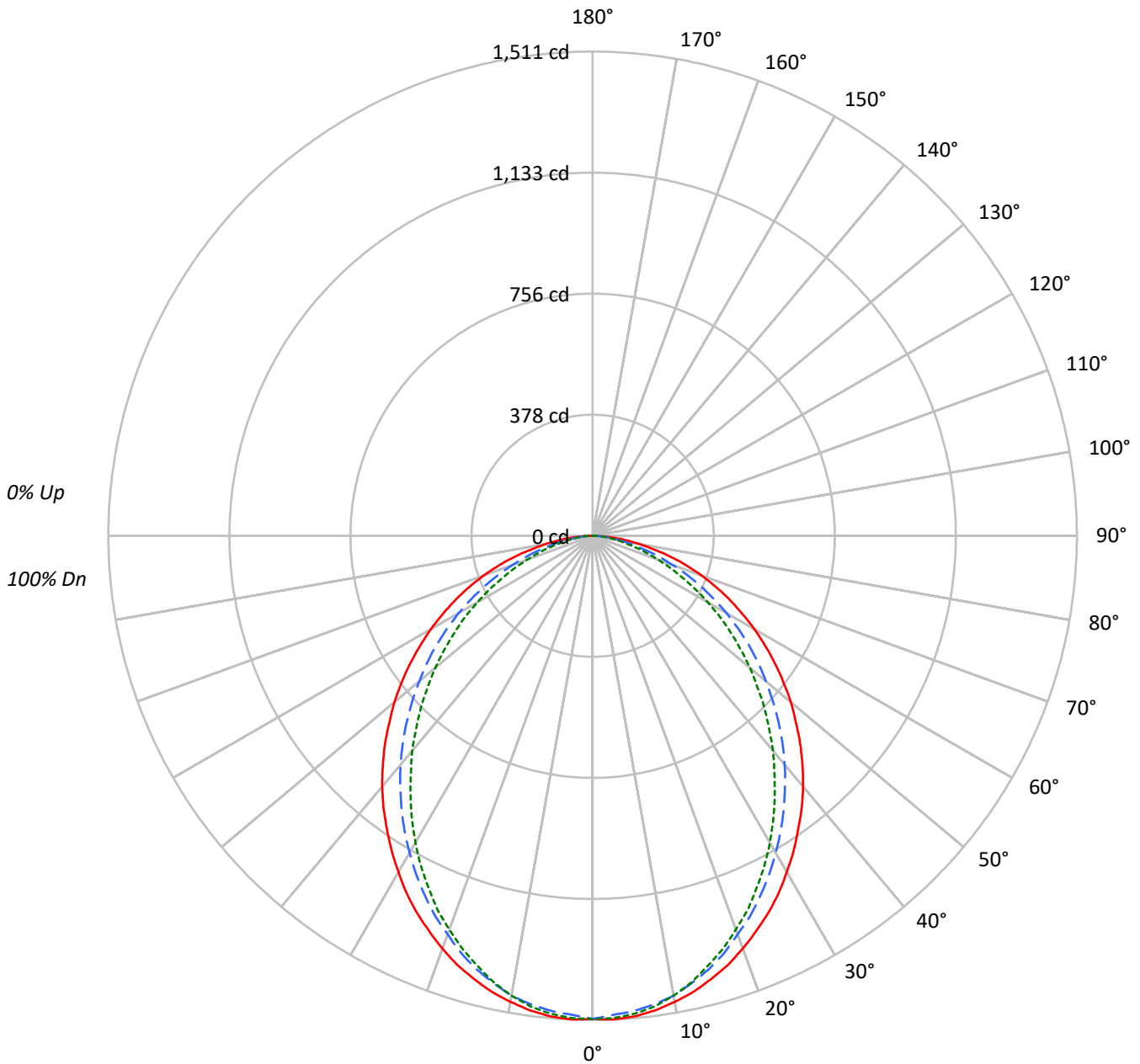
Lumens per Lamp: N/A  
Luminaire Lumens: 3562.0 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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

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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°	9629	9629	9629
5°	9651	9541	9598
10°	9577	9452	9452
15°	9464	9259	9185
20°	9316	8992	8885
25°	9146	8729	8538
30°	8935	8422	8154
35°	8718	8105	7723
40°	8516	7775	7300
45°	8268	7404	6839
50°	8021	7003	6359
55°	7735	6620	5847
60°	7446	6151	5293
65°	7108	5611	4660
70°	6720	4929	4018
75°	6181	4160	3346
80°	5447	3270	2813
85°	4580	2675	2506



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.9	4.0
10°-20°	396.5	11.1
20°-30°	575.0	16.1
30°-40°	655.1	18.4
40°-50°	638.5	17.9
50°-60°	537.3	15.1
60°-70°	376.5	10.6
70°-80°	193.1	5.4
80°-90°	48.2	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°	1113.4	31.3
0°-40°	1768.5	49.6
0°-60°	2944.3	82.7
0°-90°	3562.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3562.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1505	1501	1488	1500	1497	143
15°	1432	1424	1400	1399	1389	404
25°	1298	1281	1239	1224	1212	597
35°	1118	1091	1040	1007	991	700
45°	915	883	820	774	757	706
55°	695	658	595	543	525	621
65°	470	432	371	326	308	466
75°	250	216	169	144	136	265
85°	62	42	36	35	34	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1507.7	1507.7	1507.7	1507.7	1507.7
2.5°	1511.1	1507.7	1496.3	1507.7	1506.5
5°	1505.4	1501.0	1488.3	1499.5	1497.2
7.5°	1494.0	1489.3	1474.6	1483.6	1481.5
10°	1476.9	1473.5	1457.5	1461.0	1457.5
12.5°	1457.5	1452.8	1430.0	1432.3	1426.8
15°	1431.5	1424.5	1400.4	1399.4	1389.2
17.5°	1404.0	1393.9	1365.1	1359.7	1351.6
20°	1370.8	1359.7	1323.1	1317.4	1307.3
22.5°	1334.5	1323.1	1284.7	1272.0	1263.8
25°	1298.0	1280.9	1238.8	1224.0	1211.6
27.5°	1257.2	1236.5	1192.2	1172.9	1160.5
30°	1211.6	1190.0	1142.1	1116.1	1105.8
32.5°	1167.0	1141.0	1092.0	1062.5	1048.9
35°	1118.2	1091.0	1039.6	1006.7	990.6
37.5°	1071.5	1038.4	986.0	947.6	931.3
40°	1021.5	987.3	932.6	889.3	875.7
42.5°	968.9	933.6	876.6	835.8	814.1
45°	915.4	882.7	819.8	774.4	757.2
47.5°	859.5	825.7	762.7	716.3	696.8
50°	807.3	769.7	704.9	657.1	640.0
52.5°	750.3	711.8	651.2	598.8	581.7
55°	694.7	658.2	594.6	543.3	525.1
57.5°	637.7	598.8	537.6	487.3	471.5
60°	583.0	543.3	481.6	431.5	414.4
62.5°	525.1	487.3	424.8	379.1	362.0
65°	470.4	431.5	371.3	325.5	308.4
67.5°	415.5	377.0	318.7	275.6	262.1
70°	359.9	321.1	264.0	228.8	215.2
72.5°	305.2	267.6	215.2	183.3	175.5
75°	250.5	216.3	168.6	143.6	135.6
77.5°	194.5	167.3	127.4	108.4	101.4
80°	148.1	120.8	88.9	78.6	76.5
82.5°	102.4	78.6	59.4	55.6	54.7
85°	62.5	42.0	36.5	35.3	34.2
87.5°	26.4	18.2	17.1	17.1	15.8
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)