

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: P888456

Luminaire Tested: **DPT5-6FO44-109S27-F-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: P888456  
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: DPT5-6FO44-109S27-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

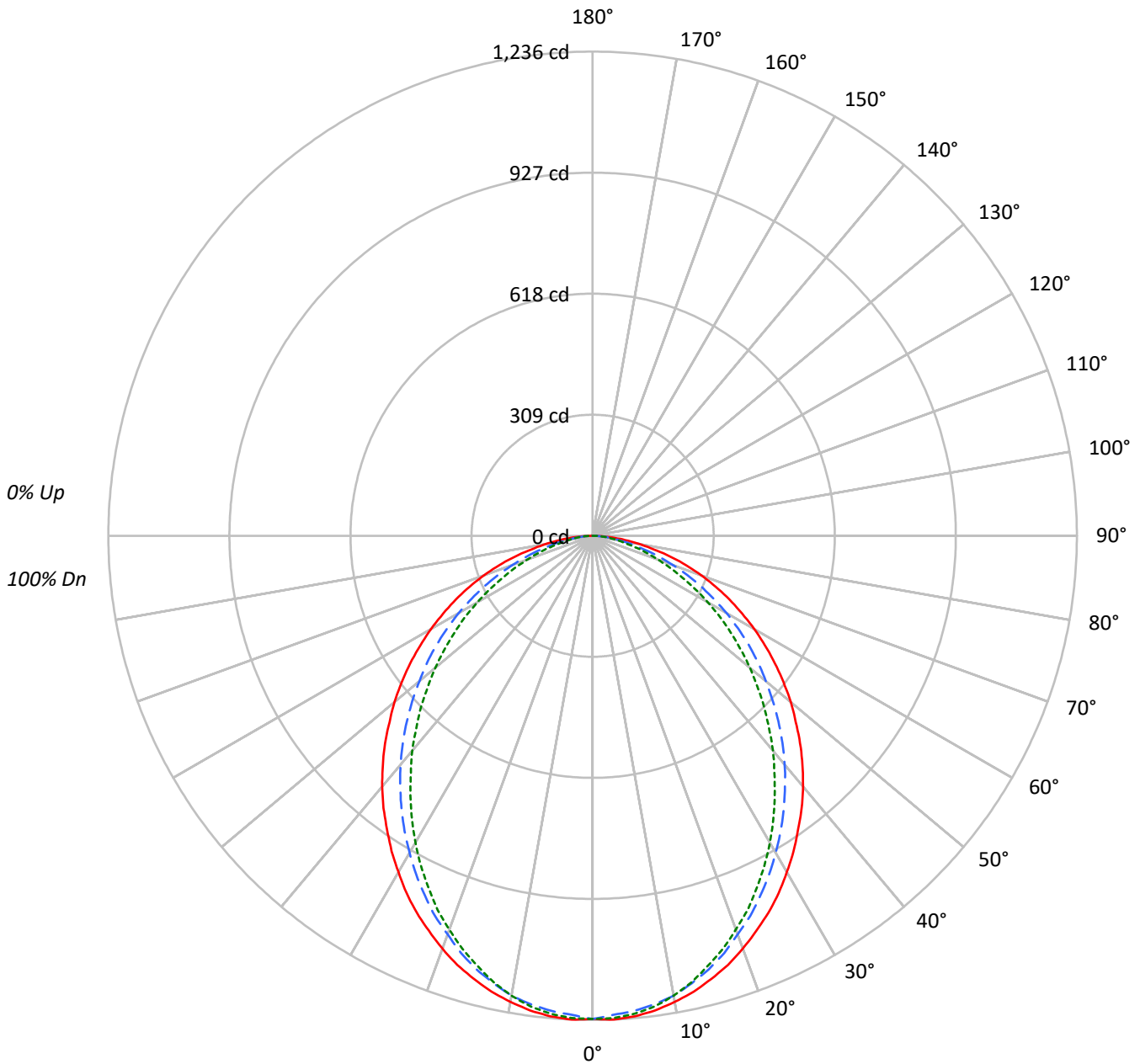
Lumens per Lamp: N/A  
Luminaire Lumens: 2914.0 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.8  
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									
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°	9535	9535	9535
5°	9557	9448	9505
10°	9484	9360	9360
15°	9373	9170	9096
20°	9227	8905	8799
25°	9057	8645	8455
30°	8848	8340	8075
35°	8633	8027	7648
40°	8434	7699	7230
45°	8188	7332	6773
50°	7943	6935	6297
55°	7660	6556	5790
60°	7374	6092	5241
65°	7039	5557	4615
70°	6654	4882	3980
75°	6120	4119	3313
80°	5391	3237	2787
85°	4533	2652	2484



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.1	4.0
10°-20°	324.4	11.1
20°-30°	470.4	16.1
30°-40°	535.9	18.4
40°-50°	522.3	17.9
50°-60°	439.6	15.1
60°-70°	308.0	10.6
70°-80°	157.9	5.4
80°-90°	39.4	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°	910.8	31.3
0°-40°	1446.8	49.6
0°-60°	2408.6	82.7
0°-90°	2914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2914.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1233	1233	1233	1233	1233	
5°	1232	1228	1218	1227	1225	117
15°	1171	1165	1146	1145	1136	330
25°	1062	1048	1014	1001	991	489
35°	915	892	850	824	810	573
45°	749	722	671	634	620	578
55°	568	538	486	444	430	508
65°	385	353	304	266	252	381
75°	205	177	138	118	111	217
85°	51	34	30	29	28	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1233.4	1233.4	1233.4	1233.4	1233.4
2.5°	1236.2	1233.4	1224.1	1233.4	1232.4
5°	1231.5	1227.9	1217.5	1226.7	1224.8
7.5°	1222.2	1218.4	1206.3	1213.7	1212.0
10°	1208.2	1205.4	1192.3	1195.2	1192.3
12.5°	1192.3	1188.5	1169.8	1171.7	1167.3
15°	1171.1	1165.4	1145.7	1144.8	1136.5
17.5°	1148.6	1140.3	1116.8	1112.3	1105.7
20°	1121.5	1112.3	1082.4	1077.7	1069.5
22.5°	1091.7	1082.4	1051.0	1040.6	1033.9
25°	1061.8	1047.9	1013.5	1001.4	991.2
27.5°	1028.5	1011.6	975.3	959.6	949.4
30°	991.2	973.5	934.3	913.1	904.6
32.5°	954.7	933.5	893.4	869.2	858.1
35°	914.8	892.5	850.5	823.6	810.4
37.5°	876.6	849.5	806.6	775.2	761.9
40°	835.7	807.7	762.9	727.5	716.4
42.5°	792.6	763.8	717.1	683.8	666.0
45°	748.9	722.1	670.6	633.5	619.5
47.5°	703.1	675.5	624.0	586.0	570.1
50°	660.4	629.7	576.6	537.6	523.6
52.5°	613.8	582.3	532.7	489.9	475.9
55°	568.3	538.4	486.4	444.4	429.6
57.5°	521.7	489.9	439.8	398.6	385.7
60°	476.9	444.4	394.0	353.0	339.0
62.5°	429.6	398.6	347.5	310.2	296.2
65°	384.8	353.0	303.8	266.3	252.3
67.5°	339.9	308.4	260.8	225.5	214.4
70°	294.4	262.7	216.0	187.1	176.1
72.5°	249.7	218.9	176.1	150.0	143.6
75°	204.9	176.9	137.9	117.5	110.9
77.5°	159.1	136.9	104.2	88.6	82.9
80°	121.1	98.8	72.7	64.3	62.6
82.5°	83.8	64.3	48.6	45.4	44.8
85°	51.1	34.4	29.9	28.9	28.0
87.5°	21.6	14.9	14.0	14.0	13.0
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)