

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: P888464

Luminaire Tested: **DPT5-6FO44-109V60-F-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: P888464  
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: DPT5-6FO44-109V60-F-XX-UDD\_4500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

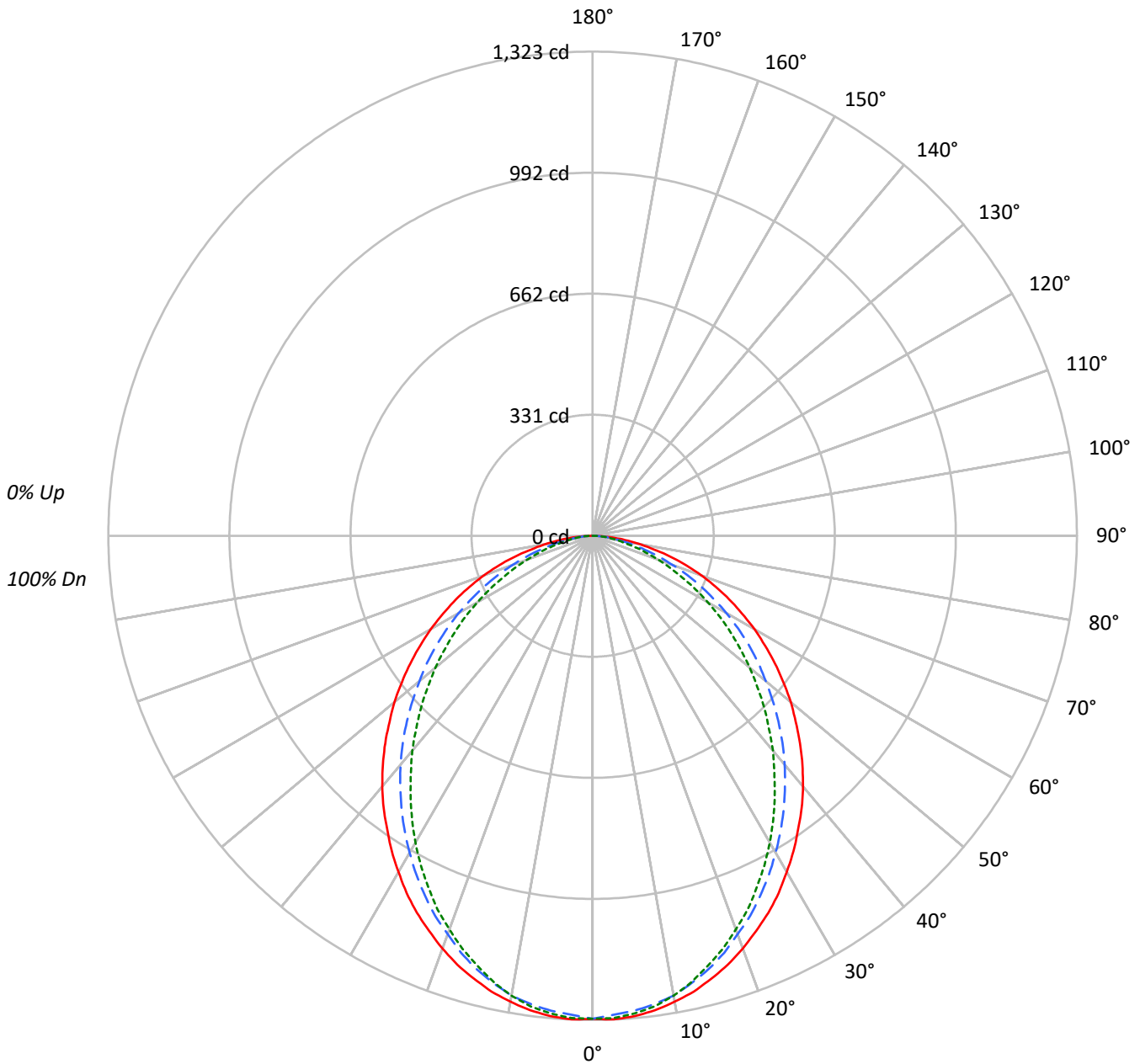
Lumens per Lamp: N/A  
Luminaire Lumens: 3118.0 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')  
CIE Type: Direct

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°	10203	10203	10203
5°	10227	10110	10170
10°	10149	10015	10015
15°	10028	9812	9733
20°	9872	9528	9414
25°	9692	9250	9047
30°	9468	8924	8640
35°	9237	8589	8184
40°	9024	8238	7736
45°	8761	7846	7247
50°	8499	7421	6738
55°	8196	7015	6196
60°	7890	6519	5609
65°	7533	5945	4937
70°	7122	5224	4258
75°	6550	4406	3546
80°	5770	3464	2978
85°	4852	2838	2661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.2	4.0
10°-20°	347.1	11.1
20°-30°	503.3	16.1
30°-40°	573.4	18.4
40°-50°	558.9	17.9
50°-60°	470.4	15.1
60°-70°	329.6	10.6
70°-80°	169.0	5.4
80°-90°	42.2	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°	974.6	31.3
0°-40°	1548.0	49.6
0°-60°	2577.3	82.7
0°-90°	3118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3118.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1318	1314	1303	1313	1310	125
15°	1253	1247	1226	1225	1216	353
25°	1136	1121	1084	1072	1061	523
35°	979	955	910	881	867	613
45°	801	773	718	678	663	618
55°	608	576	520	476	460	544
65°	412	378	325	285	270	408
75°	219	189	148	126	119	232
85°	55	37	32	31	30	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1319.8	1319.8	1319.8	1319.8	1319.8
2.5°	1322.7	1319.8	1309.8	1319.8	1318.7
5°	1317.8	1313.9	1302.8	1312.6	1310.5
7.5°	1307.8	1303.7	1290.8	1298.7	1296.9
10°	1292.8	1289.8	1275.8	1278.9	1275.8
12.5°	1275.8	1271.7	1251.7	1253.8	1249.0
15°	1253.0	1246.9	1225.9	1224.9	1216.1
17.5°	1229.0	1220.1	1195.0	1190.2	1183.1
20°	1200.0	1190.2	1158.2	1153.2	1144.3
22.5°	1168.2	1158.2	1124.5	1113.4	1106.2
25°	1136.2	1121.2	1084.4	1071.5	1060.6
27.5°	1100.5	1082.4	1043.6	1026.7	1015.8
30°	1060.6	1041.7	999.7	977.0	967.9
32.5°	1021.5	998.8	955.9	930.0	918.2
35°	978.8	955.0	910.1	881.2	867.2
37.5°	938.0	908.9	863.1	829.4	815.2
40°	894.2	864.2	816.3	778.4	766.6
42.5°	848.1	817.2	767.3	731.6	712.6
45°	801.3	772.7	717.6	677.8	662.9
47.5°	752.3	722.8	667.7	627.0	610.0
50°	706.7	673.8	617.0	575.2	560.2
52.5°	656.7	623.1	570.0	524.2	509.2
55°	608.1	576.1	520.5	475.6	459.7
57.5°	558.2	524.2	470.6	426.6	412.7
60°	510.3	475.6	421.6	377.7	362.8
62.5°	459.7	426.6	371.8	331.9	316.9
65°	411.8	377.7	325.0	284.9	269.9
67.5°	363.7	330.0	279.0	241.3	229.5
70°	315.1	281.0	231.1	200.2	188.4
72.5°	267.2	234.3	188.4	160.5	153.6
75°	219.3	189.3	147.5	125.7	118.7
77.5°	170.3	146.4	111.5	94.9	88.7
80°	129.6	105.8	77.8	68.8	66.9
82.5°	89.7	68.8	52.0	48.6	47.9
85°	54.7	36.8	32.0	30.9	30.0
87.5°	23.1	15.9	15.0	15.0	13.9
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)