

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: P888458

Luminaire Tested: **DPT5-6FO44-109S35-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: P888458  
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: DPT5-6FO44-109S35-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

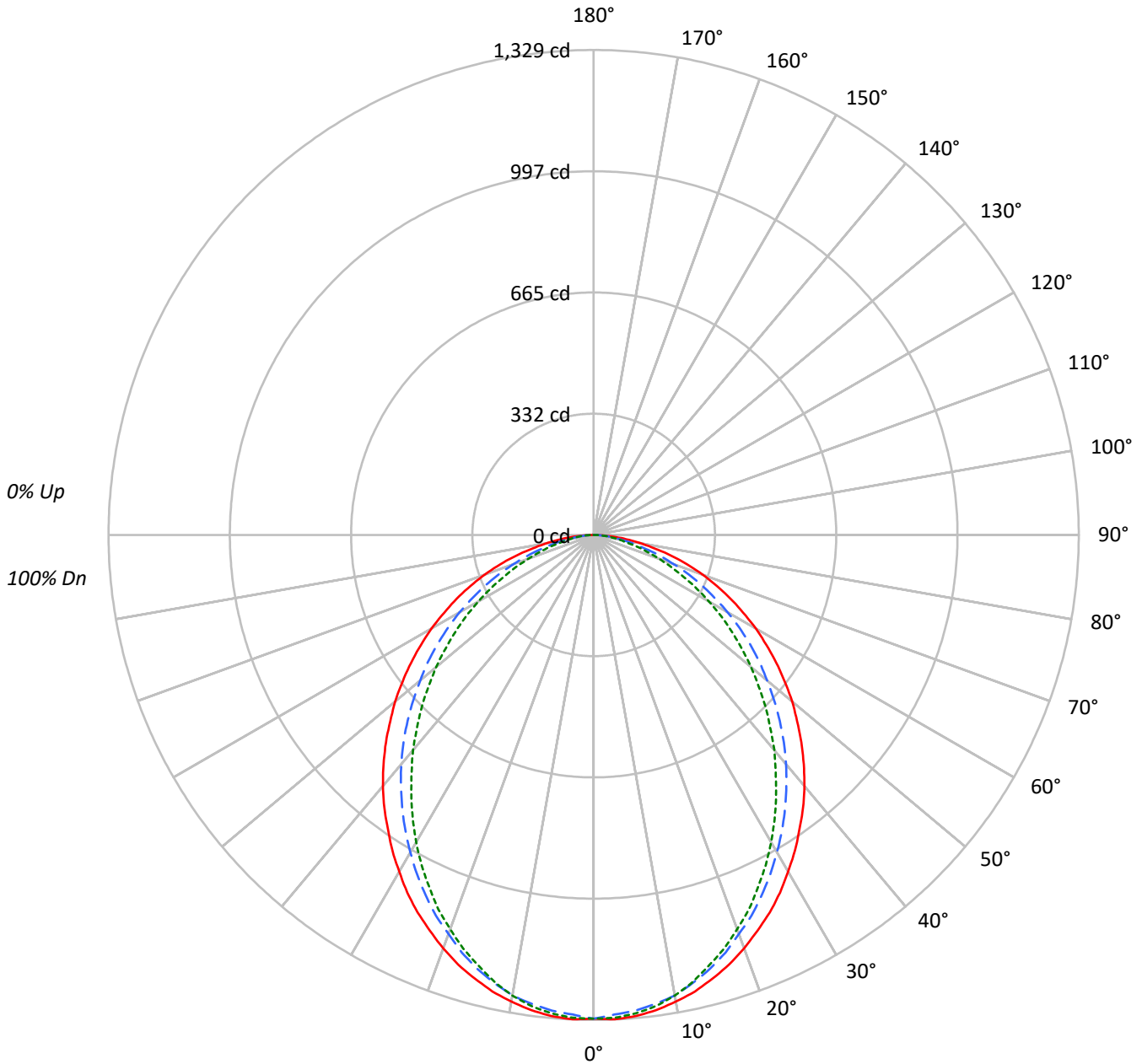
Lumens per Lamp: N/A  
Luminaire Lumens: 3132.0 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')  
CIE Type: Direct

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°	10249	10249	10249
5°	10272	10155	10216
10°	10194	10060	10060
15°	10074	9856	9776
20°	9917	9571	9457
25°	9735	9292	9087
30°	9510	8964	8679
35°	9279	8627	8221
40°	9064	8275	7771
45°	8800	7881	7279
50°	8537	7454	6768
55°	8234	7046	6223
60°	7926	6548	5634
65°	7566	5973	4961
70°	7154	5248	4279
75°	6580	4427	3560
80°	5796	3481	2992
85°	4879	2847	2670



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.8	4.0
10°-20°	348.7	11.1
20°-30°	505.6	16.1
30°-40°	576.0	18.4
40°-50°	561.4	17.9
50°-60°	472.5	15.1
60°-70°	331.1	10.6
70°-80°	169.8	5.4
80°-90°	42.3	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°	979.0	31.3
0°-40°	1555.0	49.6
0°-60°	2588.8	82.7
0°-90°	3132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3132.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1324	1320	1309	1318	1316	126
15°	1259	1252	1231	1230	1222	355
25°	1141	1126	1089	1076	1065	525
35°	983	959	914	885	871	616
45°	805	776	721	681	666	621
55°	611	579	523	478	462	546
65°	414	379	326	286	271	410
75°	220	190	148	126	119	233
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°	1325.7	1325.7	1325.7	1325.7	1325.7
2.5°	1328.7	1325.7	1315.7	1325.7	1324.6
5°	1323.7	1319.8	1308.6	1318.5	1316.4
7.5°	1313.6	1309.6	1296.6	1304.5	1302.7
10°	1298.6	1295.6	1281.5	1284.7	1281.5
12.5°	1281.5	1277.4	1257.4	1259.4	1254.6
15°	1258.7	1252.5	1231.4	1230.4	1221.5
17.5°	1234.5	1225.6	1200.3	1195.5	1188.5
20°	1205.4	1195.5	1163.4	1158.4	1149.5
22.5°	1173.4	1163.4	1129.6	1118.4	1111.2
25°	1141.3	1126.2	1089.3	1076.3	1065.3
27.5°	1105.4	1087.2	1048.2	1031.3	1020.4
30°	1065.3	1046.4	1004.2	981.4	972.3
32.5°	1026.1	1003.3	960.2	934.2	922.3
35°	983.2	959.3	914.1	885.2	871.1
37.5°	942.2	913.0	867.0	833.2	818.9
40°	898.2	868.1	820.0	781.9	770.0
42.5°	851.9	820.9	770.8	734.9	715.8
45°	804.9	776.1	720.8	680.9	665.8
47.5°	755.7	726.0	670.7	629.8	612.7
50°	709.8	676.8	619.8	577.8	562.7
52.5°	659.7	625.9	572.6	526.5	511.5
55°	610.9	578.7	522.8	477.7	461.7
57.5°	560.7	526.5	472.7	428.5	414.5
60°	512.6	477.7	423.5	379.4	364.4
62.5°	461.7	428.5	373.5	333.4	318.3
65°	413.6	379.4	326.5	286.2	271.2
67.5°	365.3	331.5	280.3	242.4	230.5
70°	316.5	282.3	232.2	201.1	189.3
72.5°	268.4	235.3	189.3	161.2	154.3
75°	220.3	190.2	148.2	126.3	119.2
77.5°	171.1	147.1	112.0	95.3	89.1
80°	130.2	106.2	78.2	69.1	67.2
82.5°	90.1	69.1	52.2	48.8	48.1
85°	55.0	37.0	32.1	31.0	30.1
87.5°	23.2	16.0	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)