

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: P888501

Luminaire Tested: **DPT5-6FO44-85S30-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: P888501  
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: DPT5-6FO44-85S30-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

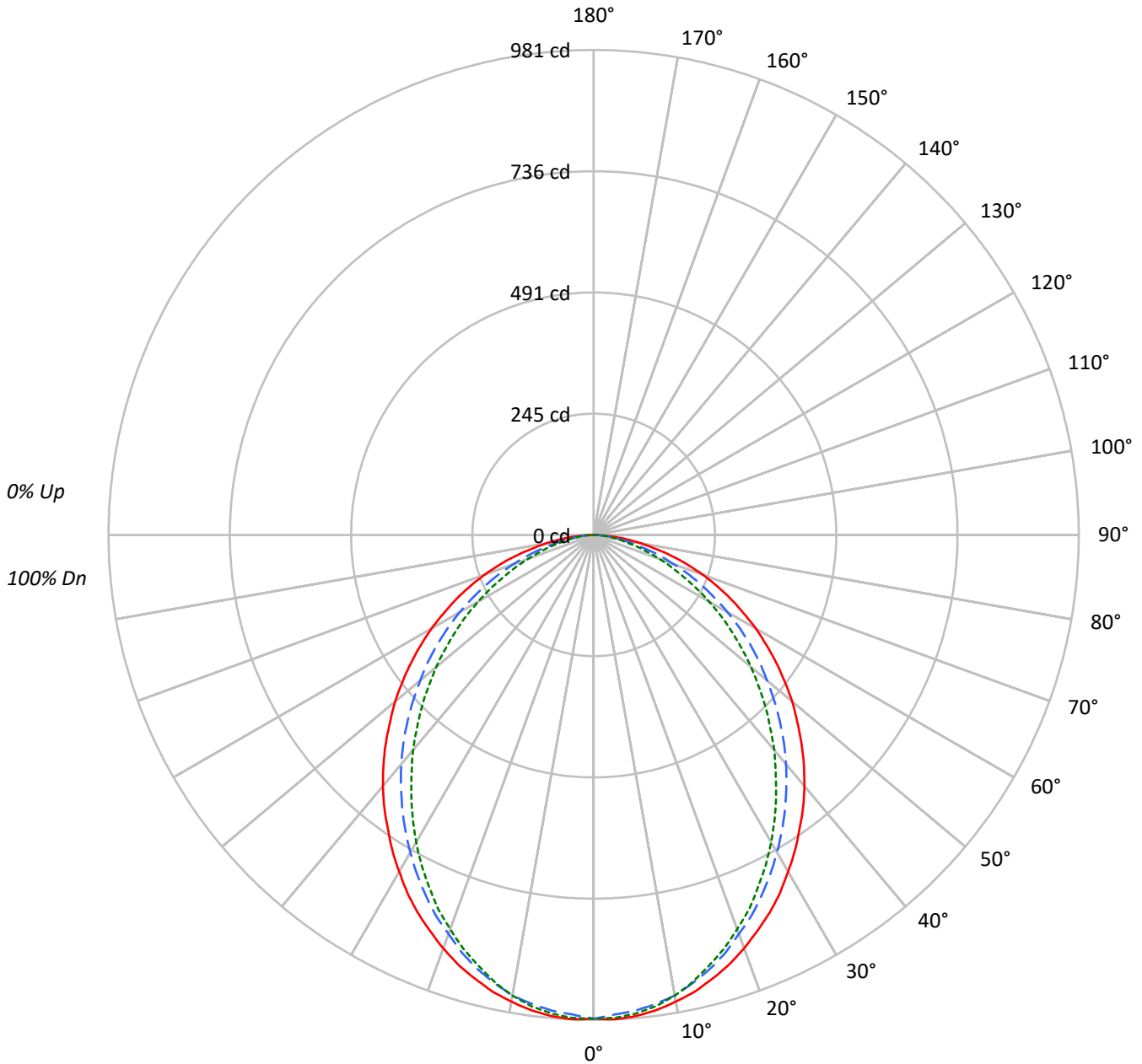
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2312.0 lumens  
Efficiency: N/A  
Efficacy: 93.2 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): 24.8  
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°	7565	7565	7565
5°	7583	7496	7541
10°	7525	7426	7426
15°	7436	7275	7217
20°	7320	7065	6981
25°	7187	6859	6708
30°	7020	6617	6407
35°	6850	6368	6068
40°	6691	6109	5736
45°	6496	5817	5374
50°	6302	5502	4996
55°	6077	5201	4593
60°	5851	4833	4159
65°	5585	4409	3662
70°	5280	3874	3158
75°	4857	3268	2629
80°	4278	2569	2208
85°	3601	2102	1969



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.1	4.0
10°-20°	257.4	11.1
20°-30°	373.2	16.1
30°-40°	425.2	18.4
40°-50°	414.4	17.9
50°-60°	348.8	15.1
60°-70°	244.4	10.6
70°-80°	125.3	5.4
80°-90°	31.3	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°	722.7	31.3
0°-40°	1147.9	49.6
0°-60°	1911.0	82.7
0°-90°	2312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2312.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	979	979	979	979	979	
5°	977	974	966	973	972	93
15°	929	925	909	908	902	262
25°	842	831	804	794	786	388
35°	726	708	675	653	643	454
45°	594	573	532	503	492	458
55°	451	427	386	353	341	403
65°	305	280	241	211	200	302
75°	163	140	109	93	88	172
85°	41	27	24	23	22	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	978.6	978.6	978.6	978.6	978.6
2.5°	980.8	978.6	971.2	978.6	977.8
5°	977.1	974.2	966.0	973.3	971.8
7.5°	969.7	966.7	957.1	963.0	961.6
10°	958.6	956.4	946.0	948.3	946.0
12.5°	946.0	943.0	928.2	929.7	926.1
15°	929.1	924.6	909.0	908.3	901.7
17.5°	911.3	904.7	886.1	882.5	877.3
20°	889.8	882.5	858.8	855.1	848.5
22.5°	866.2	858.8	833.8	825.6	820.3
25°	842.5	831.4	804.1	794.5	786.4
27.5°	816.0	802.6	773.8	761.3	753.2
30°	786.4	772.4	741.3	724.4	717.7
32.5°	757.5	740.6	708.8	689.6	680.8
35°	725.8	708.1	674.8	653.4	643.0
37.5°	695.5	674.0	640.0	615.0	604.5
40°	663.0	640.8	605.3	577.2	568.4
42.5°	628.9	606.0	569.0	542.5	528.4
45°	594.2	572.9	532.1	502.6	491.5
47.5°	557.9	535.9	495.1	464.9	452.3
50°	524.0	499.6	457.5	426.5	415.4
52.5°	487.0	462.0	422.7	388.7	377.6
55°	450.9	427.2	385.9	352.6	340.8
57.5°	413.9	388.7	348.9	316.3	306.0
60°	378.4	352.6	312.6	280.1	269.0
62.5°	340.8	316.3	275.7	246.1	235.0
65°	305.3	280.1	241.0	211.3	200.2
67.5°	269.7	244.7	206.9	178.9	170.1
70°	233.6	208.4	171.4	148.5	139.7
72.5°	198.1	173.7	139.7	119.0	113.9
75°	162.6	140.4	109.4	93.2	88.0
77.5°	126.3	108.6	82.7	70.3	65.8
80°	96.1	78.4	57.7	51.0	49.6
82.5°	66.5	51.0	38.5	36.1	35.5
85°	40.6	27.3	23.7	22.9	22.2
87.5°	17.1	11.8	11.1	11.1	10.3
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)