

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: P888281

Luminaire Tested: **DPT5-6FO55-85S30-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: P888281  
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: DPT5-6FO55-85S30-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

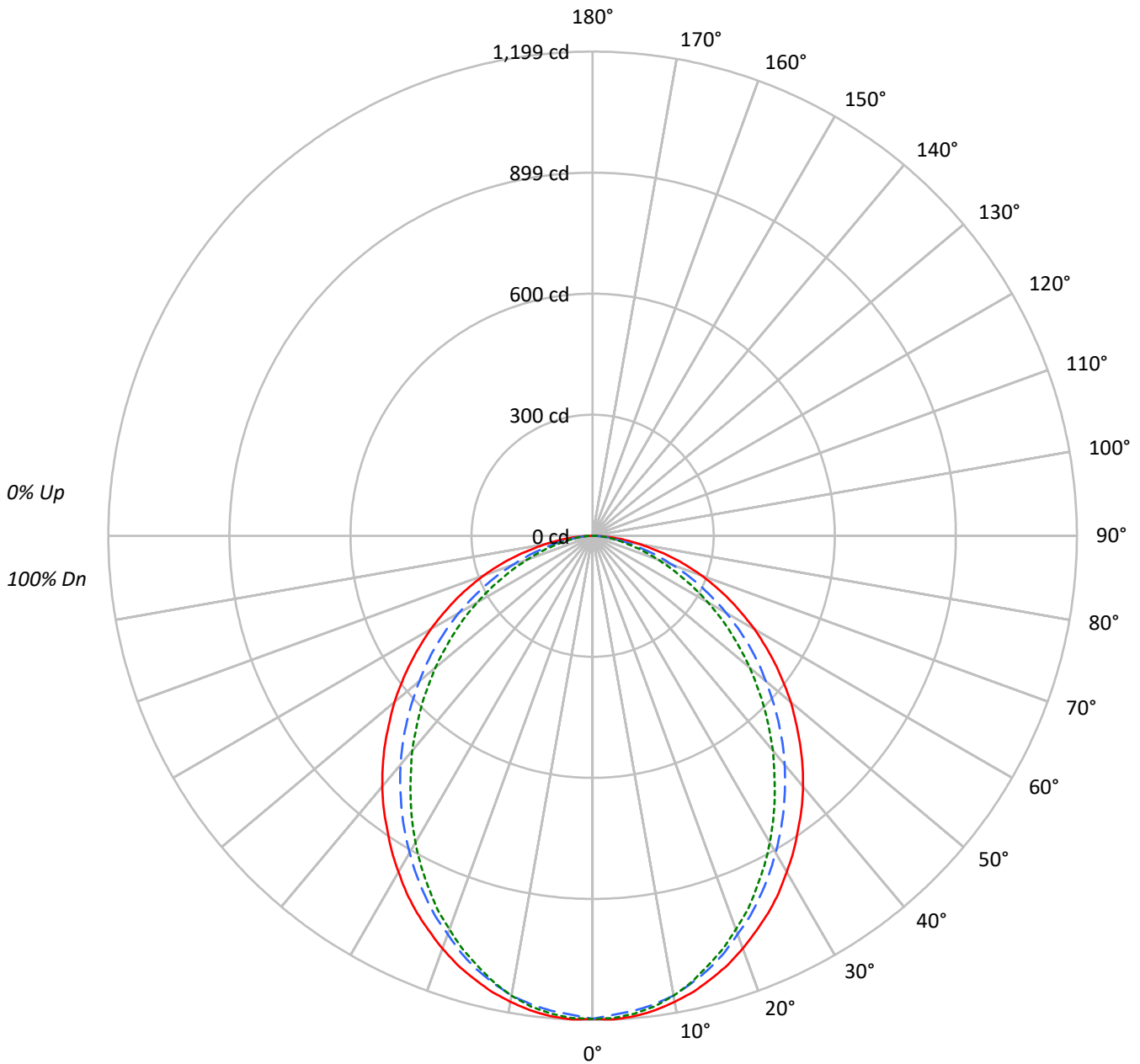
Lumens per Lamp: N/A  
Luminaire Lumens: 2826.0 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.1  
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°	7639	7639	7639
5°	7656	7570	7615
10°	7598	7498	7498
15°	7509	7346	7287
20°	7392	7134	7049
25°	7256	6926	6773
30°	7088	6682	6469
35°	6917	6430	6128
40°	6756	6168	5792
45°	6560	5874	5426
50°	6364	5556	5045
55°	6137	5252	4639
60°	5907	4880	4200
65°	5640	4452	3698
70°	5333	3912	3189
75°	4905	3299	2655
80°	4321	2596	2232
85°	3634	2125	1986



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.6	4.0
10°-20°	314.6	11.1
20°-30°	456.2	16.1
30°-40°	519.7	18.4
40°-50°	506.5	17.9
50°-60°	426.3	15.1
60°-70°	298.7	10.6
70°-80°	153.2	5.4
80°-90°	38.2	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°	883.3	31.3
0°-40°	1403.1	49.6
0°-60°	2335.9	82.7
0°-90°	2826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2826.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1196	1196	1196	1196	1196	
5°	1194	1191	1181	1190	1188	113
15°	1136	1130	1111	1110	1102	320
25°	1030	1016	983	971	961	474
35°	887	866	825	799	786	556
45°	726	700	650	614	601	560
55°	551	522	472	431	417	493
65°	373	342	295	258	245	369
75°	199	172	134	114	108	210
85°	50	33	29	28	27	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1196.2	1196.2	1196.2	1196.2	1196.2
2.5°	1198.9	1196.2	1187.1	1196.2	1195.2
5°	1194.3	1190.8	1180.8	1189.7	1187.8
7.5°	1185.3	1181.6	1169.9	1177.1	1175.4
10°	1171.7	1169.0	1156.3	1159.2	1156.3
12.5°	1156.3	1152.6	1134.5	1136.4	1132.0
15°	1135.7	1130.2	1111.1	1110.2	1102.2
17.5°	1113.9	1105.9	1083.1	1078.7	1072.3
20°	1087.6	1078.7	1049.7	1045.2	1037.2
22.5°	1058.8	1049.7	1019.2	1009.2	1002.6
25°	1029.8	1016.2	982.9	971.1	961.2
27.5°	997.4	981.0	945.8	930.6	920.7
30°	961.2	944.1	906.1	885.5	877.3
32.5°	925.9	905.3	866.4	842.9	832.2
35°	887.2	865.6	824.8	798.7	786.0
37.5°	850.1	823.8	782.3	751.8	738.9
40°	810.4	783.3	739.9	705.5	694.8
42.5°	768.7	740.7	695.5	663.1	645.9
45°	726.3	700.3	650.4	614.3	600.8
47.5°	681.9	655.1	605.1	568.3	552.8
50°	640.5	610.7	559.2	521.3	507.8
52.5°	595.2	564.7	516.7	475.1	461.5
55°	551.2	522.2	471.7	431.0	416.6
57.5°	505.9	475.1	426.5	386.6	374.0
60°	462.5	431.0	382.1	342.4	328.8
62.5°	416.6	386.6	337.0	300.8	287.2
65°	373.2	342.4	294.6	258.2	244.7
67.5°	329.6	299.1	252.9	218.7	208.0
70°	285.6	254.7	209.5	181.5	170.8
72.5°	242.2	212.3	170.8	145.5	139.3
75°	198.8	171.6	133.7	114.0	107.6
77.5°	154.3	132.7	101.1	86.0	80.4
80°	117.5	95.9	70.6	62.3	60.7
82.5°	81.3	62.3	47.1	44.1	43.4
85°	49.6	33.3	29.0	28.0	27.1
87.5°	20.9	14.4	13.6	13.6	12.6
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)