

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: P888228

Luminaire Tested: **DPT5-6FO44-85S40-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: P888228  
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: DPT5-6FO44-85S40-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

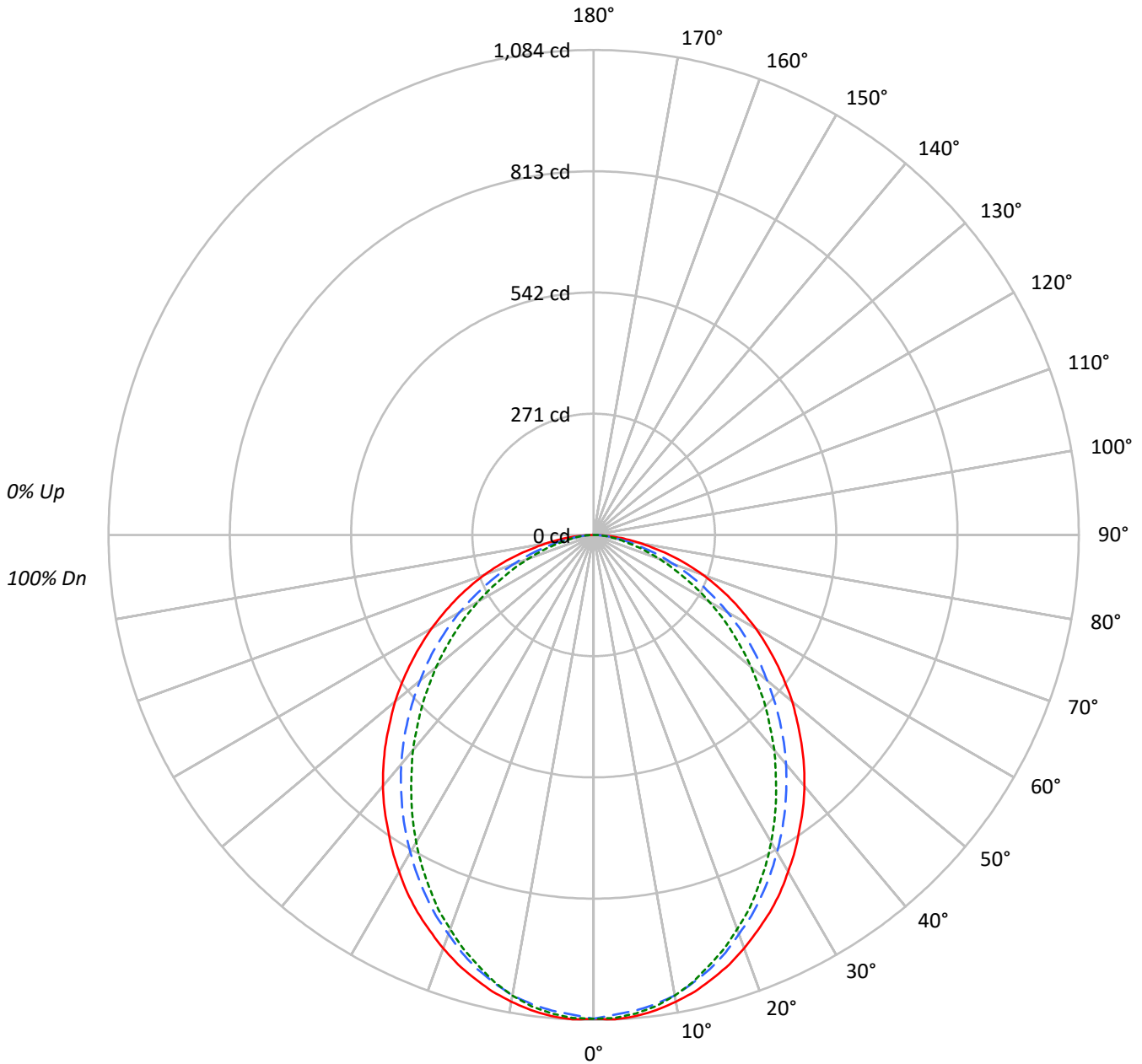
Lumens per Lamp: N/A  
Luminaire Lumens: 2555.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')  
CIE Type: Direct

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°	8361	8361	8361
5°	8380	8284	8334
10°	8316	8206	8206
15°	8218	8040	7975
20°	8090	7808	7714
25°	7941	7580	7413
30°	7758	7313	7081
35°	7570	7038	6706
40°	7394	6750	6340
45°	7179	6429	5939
50°	6965	6081	5522
55°	6716	5748	5077
60°	6466	5340	4597
65°	6172	4873	4046
70°	5836	4281	3490
75°	5368	3611	2906
80°	4728	2840	2440
85°	3974	2324	2173



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.8	4.0
10°-20°	284.4	11.1
20°-30°	412.4	16.1
30°-40°	469.9	18.4
40°-50°	458.0	17.9
50°-60°	385.4	15.1
60°-70°	270.1	10.6
70°-80°	138.5	5.4
80°-90°	34.5	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°	798.6	31.3
0°-40°	1268.5	49.6
0°-60°	2111.9	82.7
0°-90°	2555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2555.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1080	1077	1068	1076	1074	102
15°	1027	1022	1004	1004	996	289
25°	931	919	889	878	869	428
35°	802	783	746	722	711	502
45°	657	633	588	555	543	506
55°	498	472	426	390	377	446
65°	337	310	266	234	221	334
75°	180	155	121	103	97	190
85°	45	30	26	25	24	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1081.5	1081.5	1081.5	1081.5	1081.5
2.5°	1083.9	1081.5	1073.3	1081.5	1080.6
5°	1079.8	1076.6	1067.5	1075.6	1073.9
7.5°	1071.6	1068.3	1057.7	1064.2	1062.7
10°	1059.4	1056.9	1045.4	1048.0	1045.4
12.5°	1045.4	1042.1	1025.7	1027.4	1023.5
15°	1026.8	1021.8	1004.5	1003.8	996.5
17.5°	1007.1	999.8	979.2	975.3	969.5
20°	983.3	975.3	949.1	945.0	937.7
22.5°	957.2	949.1	921.5	912.4	906.5
25°	931.0	918.8	888.6	878.0	869.1
27.5°	901.8	886.9	855.1	841.3	832.4
30°	869.1	853.6	819.2	800.6	793.2
32.5°	837.1	818.5	783.3	762.1	752.4
35°	802.1	782.6	745.7	722.1	710.6
37.5°	768.6	744.8	707.2	679.7	668.0
40°	732.7	708.2	668.9	637.9	628.2
42.5°	695.0	669.7	628.8	599.5	583.9
45°	656.6	633.2	588.0	555.4	543.2
47.5°	616.5	592.3	547.1	513.8	499.8
50°	579.1	552.1	505.6	471.3	459.1
52.5°	538.2	510.6	467.1	429.5	417.3
55°	498.3	472.1	426.5	389.7	376.7
57.5°	457.4	429.5	385.6	349.5	338.2
60°	418.2	389.7	345.4	309.5	297.3
62.5°	376.7	349.5	304.7	272.0	259.7
65°	337.4	309.5	266.4	233.5	221.2
67.5°	298.0	270.4	228.6	197.7	188.0
70°	258.2	230.3	189.4	164.1	154.4
72.5°	218.9	192.0	154.4	131.5	125.9
75°	179.7	155.1	120.9	103.0	97.3
77.5°	139.5	120.0	91.4	77.7	72.7
80°	106.2	86.7	63.8	56.4	54.8
82.5°	73.5	56.4	42.6	39.8	39.2
85°	44.8	30.2	26.2	25.3	24.5
87.5°	18.9	13.0	12.3	12.3	11.4
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)