

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: P888171

Luminaire Tested: **DPT5-6FO36-85S30-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: P888171  
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: DPT5-6FO36-85S30-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

**Summary**

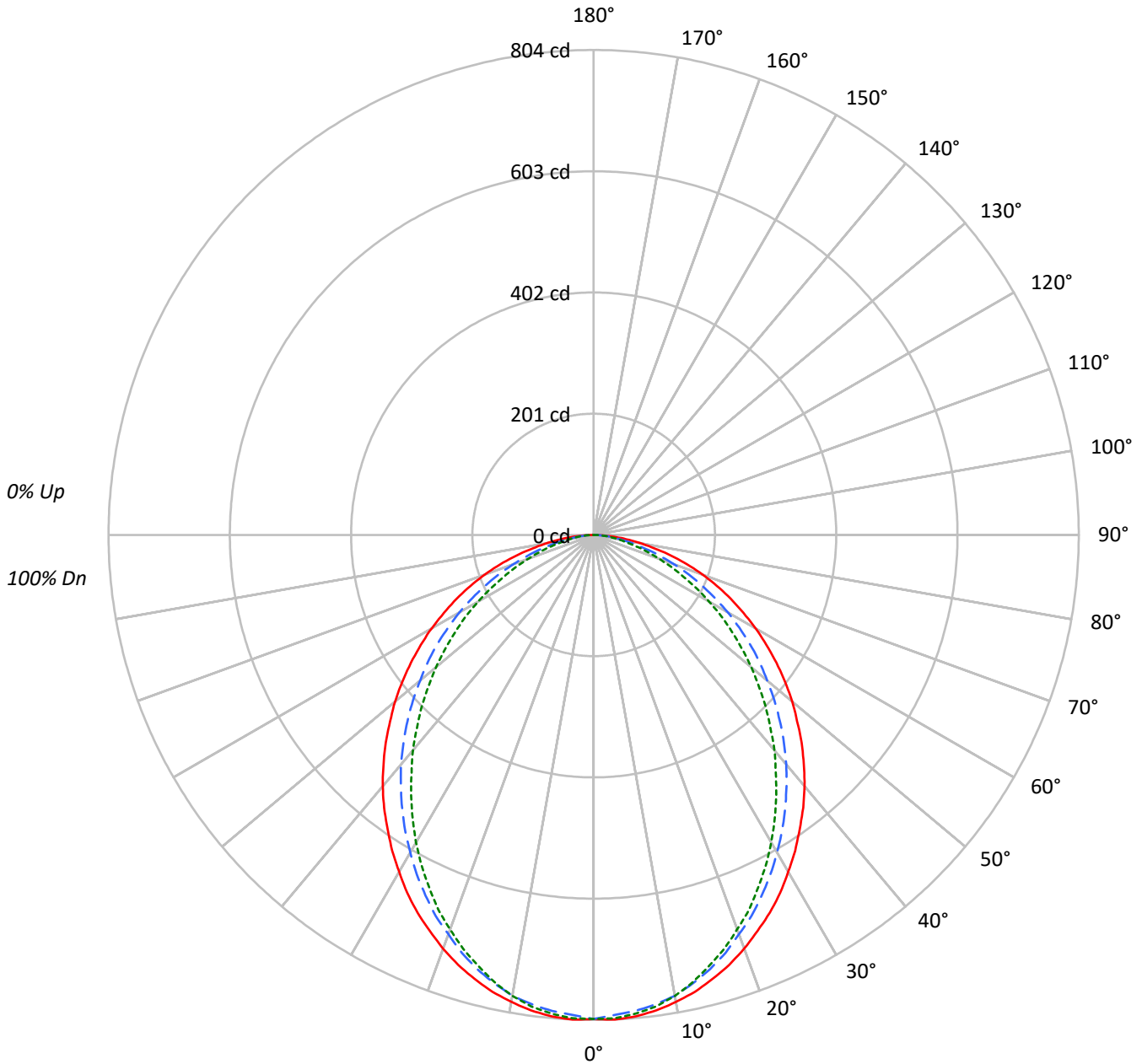
Lumens per Lamp: N/A  
Luminaire Lumens: 1896.0 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.9' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.1  
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°	7632	7632	7632
5°	7650	7563	7608
10°	7592	7492	7492
15°	7503	7339	7281
20°	7385	7128	7042
25°	7250	6920	6767
30°	7082	6676	6464
35°	6910	6425	6122
40°	6750	6163	5787
45°	6554	5868	5422
50°	6358	5551	5041
55°	6132	5248	4634
60°	5902	4875	4196
65°	5635	4449	3695
70°	5328	3907	3187
75°	4898	3296	2653
80°	4316	2591	2229
85°	3634	2128	1986



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.5	4.0
10°-20°	211.1	11.1
20°-30°	306.0	16.1
30°-40°	348.7	18.4
40°-50°	339.8	17.9
50°-60°	286.0	15.1
60°-70°	200.4	10.6
70°-80°	102.8	5.4
80°-90°	25.6	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°	592.6	31.3
0°-40°	941.3	49.6
0°-60°	1567.2	82.7
0°-90°	1896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	801	799	792	798	797	76
15°	762	758	745	745	740	215
25°	691	682	659	652	645	318
35°	595	581	553	536	527	373
45°	487	470	436	412	403	376
55°	370	350	316	289	280	331
65°	250	230	198	173	164	248
75°	133	115	90	76	72	141
85°	33	22	20	19	18	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	802.5	802.5	802.5	802.5	802.5
2.5°	804.3	802.5	796.5	802.5	801.9
5°	801.3	798.9	792.2	798.2	796.9
7.5°	795.2	792.8	784.9	789.7	788.6
10°	786.1	784.3	775.8	777.7	775.8
12.5°	775.8	773.3	761.2	762.4	759.5
15°	762.0	758.2	745.4	744.9	739.5
17.5°	747.3	741.9	726.6	723.7	719.5
20°	729.7	723.7	704.3	701.2	695.8
22.5°	710.3	704.3	683.8	677.1	672.7
25°	690.9	681.8	659.4	651.5	644.9
27.5°	669.2	658.2	634.6	624.3	617.7
30°	644.9	633.4	607.9	594.1	588.6
32.5°	621.2	607.4	581.3	565.5	558.3
35°	595.2	580.7	553.4	535.9	527.3
37.5°	570.4	552.7	524.8	504.4	495.7
40°	543.7	525.5	496.4	473.3	466.1
42.5°	515.7	496.9	466.6	444.9	433.3
45°	487.3	469.9	436.3	412.2	403.1
47.5°	457.5	439.5	406.0	381.3	370.9
50°	429.7	409.7	375.2	349.8	340.7
52.5°	399.4	378.9	346.6	318.7	309.6
55°	369.8	350.3	316.5	289.2	279.5
57.5°	339.4	318.7	286.1	259.4	250.9
60°	310.3	289.2	256.3	229.7	220.6
62.5°	279.5	259.4	226.1	201.8	192.7
65°	250.4	229.7	197.7	173.3	164.2
67.5°	221.2	200.7	169.7	146.7	139.5
70°	191.6	170.9	140.5	121.8	114.6
72.5°	162.5	142.5	114.6	97.6	93.4
75°	133.3	115.1	89.7	76.5	72.2
77.5°	103.5	89.0	67.8	57.7	54.0
80°	78.8	64.3	47.3	41.8	40.7
82.5°	54.5	41.8	31.6	29.6	29.1
85°	33.3	22.4	19.5	18.8	18.2
87.5°	14.1	9.7	9.1	9.1	8.4
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)