

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: P888261

Luminaire Tested: **DPT5-6FO55-37S40-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: P888261  
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: DPT5-6FO55-37S40-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

**Summary**

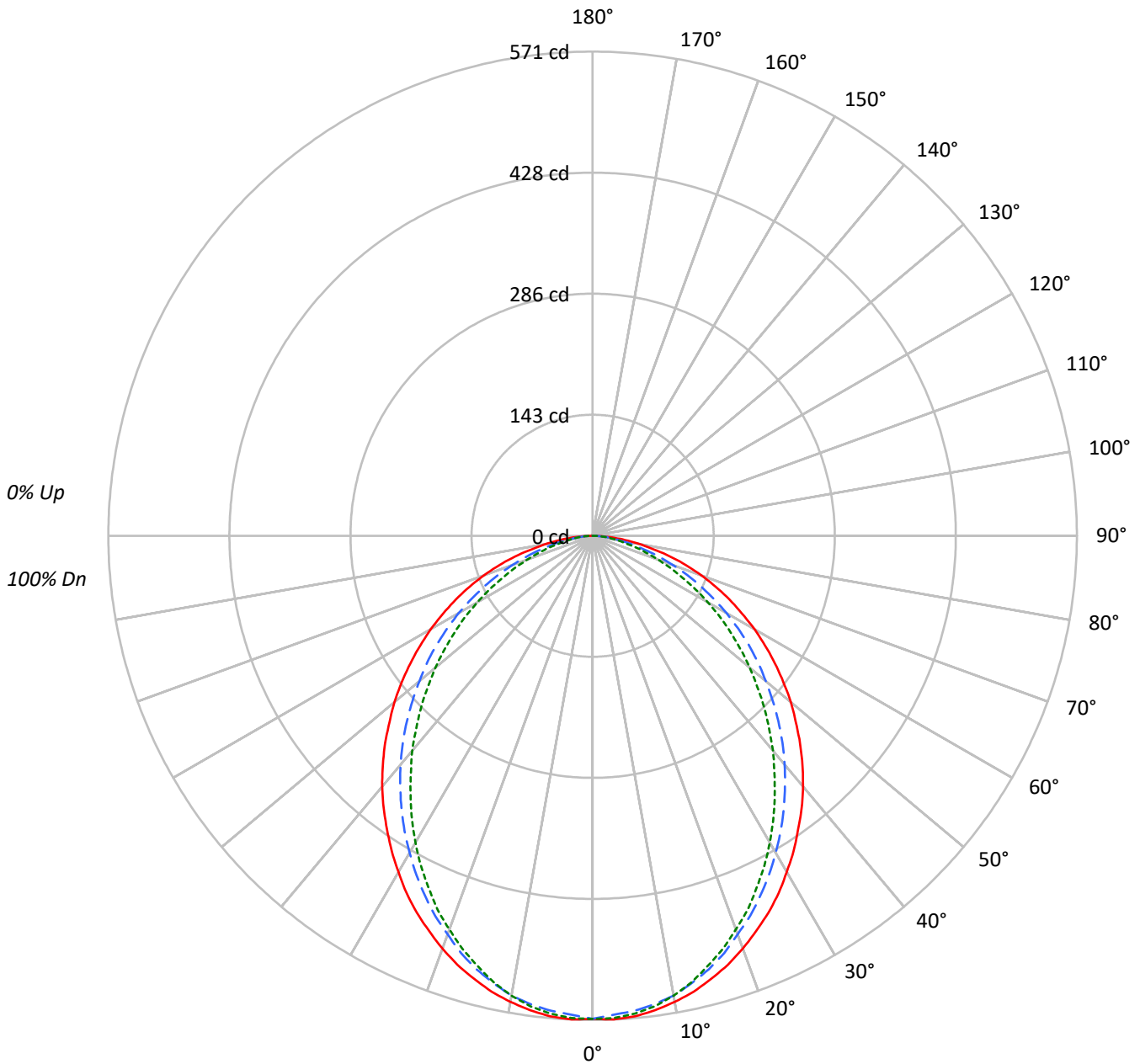
Lumens per Lamp: N/A  
Luminaire Lumens: 1346.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.1  
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°	3638	3638	3638
5°	3647	3605	3627
10°	3619	3571	3571
15°	3576	3499	3471
20°	3520	3398	3357
25°	3456	3298	3226
30°	3376	3183	3081
35°	3295	3063	2918
40°	3218	2938	2759
45°	3124	2798	2584
50°	3031	2646	2402
55°	2923	2502	2209
60°	2814	2325	2000
65°	2687	2120	1760
70°	2539	1863	1518
75°	2337	1572	1263
80°	2060	1236	1063
85°	1729	1011	945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	4.0
10°-20°	149.8	11.1
20°-30°	217.3	16.1
30°-40°	247.5	18.4
40°-50°	241.3	17.9
50°-60°	203.1	15.1
60°-70°	142.3	10.6
70°-80°	72.9	5.4
80°-90°	18.2	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°	420.7	31.3
0°-40°	668.3	49.6
0°-60°	1112.6	82.7
0°-90°	1346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1346.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	569	567	562	567	566	54
15°	541	538	529	529	525	153
25°	490	484	468	462	458	226
35°	423	412	393	380	374	265
45°	346	334	310	293	286	267
55°	262	249	225	205	198	235
65°	178	163	140	123	116	176
75°	95	82	64	54	51	100
85°	24	16	14	13	13	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	569.7	569.7	569.7	569.7	569.7
2.5°	571.0	569.7	565.4	569.7	569.3
5°	568.9	567.2	562.4	566.6	565.7
7.5°	564.5	562.8	557.2	560.6	559.8
10°	558.1	556.8	550.7	552.1	550.7
12.5°	550.7	549.0	540.4	541.2	539.2
15°	540.9	538.3	529.2	528.8	525.0
17.5°	530.5	526.7	515.9	513.8	510.7
20°	518.0	513.8	500.0	497.8	494.0
22.5°	504.3	500.0	485.4	480.7	477.5
25°	490.5	484.0	468.1	462.5	457.8
27.5°	475.1	467.2	450.5	443.2	438.5
30°	457.8	449.7	431.6	421.8	417.8
32.5°	441.0	431.2	412.7	401.5	396.4
35°	422.6	412.3	392.9	380.4	374.3
37.5°	404.9	392.4	372.6	358.1	351.9
40°	386.0	373.1	352.4	336.0	330.9
42.5°	366.1	352.8	331.2	315.8	307.6
45°	345.9	333.6	309.8	292.6	286.1
47.5°	324.8	312.0	288.2	270.7	263.3
50°	305.1	290.9	266.3	248.3	241.8
52.5°	283.5	269.0	246.1	226.3	219.8
55°	262.5	248.7	224.7	205.3	198.4
57.5°	241.0	226.3	203.1	184.1	178.2
60°	220.3	205.3	182.0	163.1	156.6
62.5°	198.4	184.1	160.5	143.3	136.8
65°	177.8	163.1	140.3	123.0	116.5
67.5°	157.0	142.5	120.4	104.2	99.1
70°	136.0	121.3	99.8	86.4	81.3
72.5°	115.3	101.1	81.3	69.3	66.3
75°	94.7	81.7	63.7	54.3	51.2
77.5°	73.5	63.2	48.1	40.9	38.3
80°	56.0	45.7	33.6	29.7	28.9
82.5°	38.7	29.7	22.4	21.0	20.7
85°	23.6	15.9	13.8	13.3	12.9
87.5°	10.0	6.9	6.5	6.5	6.0
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)