

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: P888068

Luminaire Tested: **DPT5-4F021-85V60-A-XX-UDD\_4500K**

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: P888068  
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: DPT5-4F021-85V60-A-XX-UDD\_4500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

**Summary**

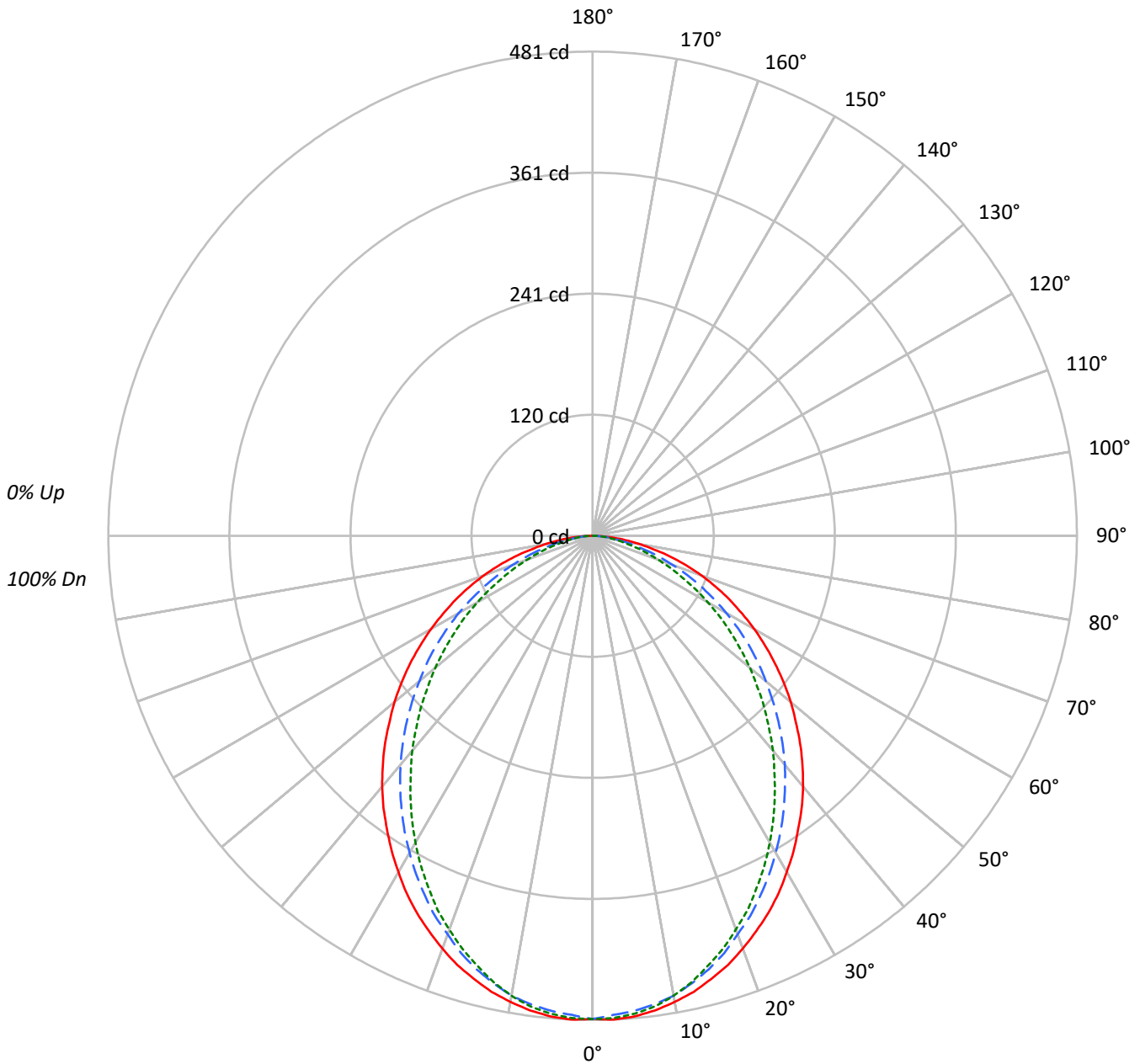
Lumens per Lamp: N/A  
Luminaire Lumens: 1134.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.4  
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°	8032	8032	8032
5°	8051	7959	8006
10°	7990	7884	7884
15°	7895	7723	7662
20°	7771	7501	7412
25°	7629	7282	7121
30°	7453	7026	6802
35°	7272	6762	6443
40°	7104	6486	6090
45°	6896	6177	5706
50°	6691	5842	5306
55°	6453	5523	4878
60°	6212	5131	4414
65°	5931	4680	3888
70°	5607	4115	3351
75°	5159	3472	2793
80°	4539	2727	2342
85°	3821	2227	2093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.2	4.0
10°-20°	126.2	11.1
20°-30°	183.0	16.1
30°-40°	208.6	18.4
40°-50°	203.3	17.9
50°-60°	171.1	15.1
60°-70°	119.9	10.6
70°-80°	61.5	5.4
80°-90°	15.3	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°	354.5	31.3
0°-40°	563.0	49.6
0°-60°	937.3	82.7
0°-90°	1134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1134.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	480	480	480	480	480	
5°	479	478	474	477	477	45
15°	456	454	446	446	442	128
25°	413	408	394	390	386	190
35°	356	347	331	320	315	223
45°	291	281	261	246	241	225
55°	221	210	189	173	167	198
65°	150	137	118	104	98	148
75°	80	69	54	46	43	84
85°	20	13	12	11	11	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	480.0	480.0	480.0	480.0	480.0
2.5°	481.1	480.0	476.4	480.0	479.6
5°	479.3	477.8	473.8	477.4	476.6
7.5°	475.6	474.1	469.4	472.3	471.7
10°	470.2	469.1	464.0	465.1	464.0
12.5°	464.0	462.5	455.3	456.0	454.2
15°	455.7	453.5	445.8	445.5	442.3
17.5°	447.0	443.8	434.6	432.9	430.3
20°	436.4	432.9	421.2	419.4	416.2
22.5°	424.9	421.2	409.0	405.0	402.3
25°	413.2	407.8	394.4	389.7	385.7
27.5°	400.2	393.7	379.5	373.4	369.4
30°	385.7	378.9	363.6	355.3	352.0
32.5°	371.5	363.3	347.7	338.2	333.9
35°	356.0	347.3	331.0	320.5	315.4
37.5°	341.1	330.6	313.9	301.7	296.5
40°	325.2	314.3	296.9	283.1	278.8
42.5°	308.5	297.2	279.1	266.1	259.2
45°	291.4	281.0	261.0	246.5	241.1
47.5°	273.6	262.9	242.8	228.0	221.8
50°	257.0	245.0	224.4	209.2	203.8
52.5°	238.9	226.6	207.3	190.6	185.2
55°	221.2	209.5	189.3	173.0	167.2
57.5°	203.0	190.6	171.1	155.1	150.1
60°	185.6	173.0	153.3	137.4	131.9
62.5°	167.2	155.1	135.2	120.7	115.3
65°	149.8	137.4	118.2	103.6	98.2
67.5°	132.3	120.0	101.5	87.8	83.5
70°	114.6	102.2	84.1	72.8	68.5
72.5°	97.2	85.2	68.5	58.4	55.9
75°	79.8	68.9	53.7	45.7	43.2
77.5°	61.9	53.3	40.5	34.5	32.3
80°	47.1	38.5	28.3	25.0	24.3
82.5°	32.6	25.0	18.9	17.7	17.4
85°	19.9	13.4	11.6	11.2	10.9
87.5°	8.4	5.8	5.4	5.4	5.0
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)