

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: P888298

Luminaire Tested: **DPT5-4F021-109V60-F-XX-UDD\_4000K**

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: P888298  
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: DPT5-4F021-109V60-F-XX-UDD\_4000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

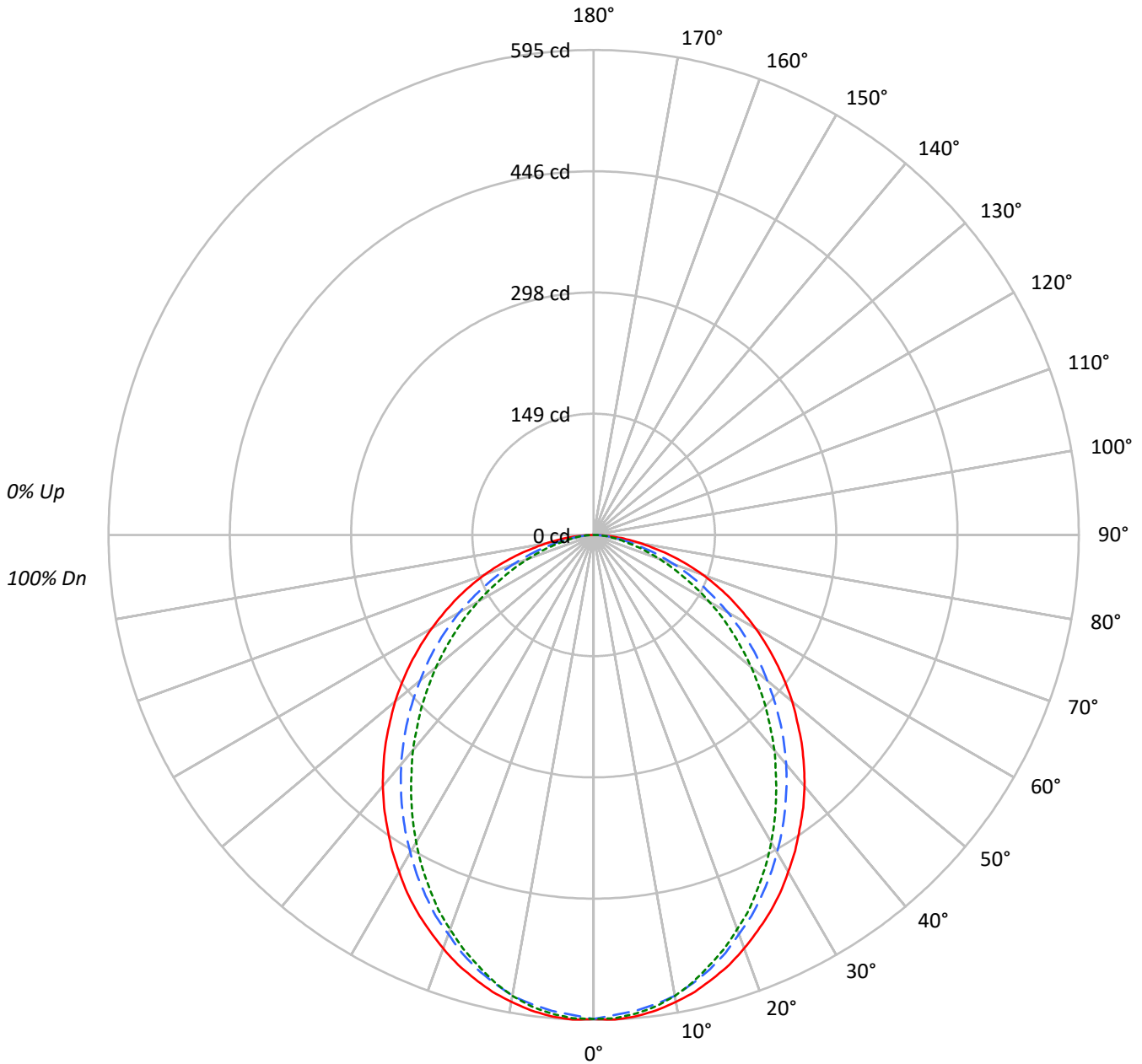
Lumens per Lamp: N/A  
Luminaire Lumens: 1403.0 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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

TEST NUMBER: P888298

CATALOG NUMBER: DPT5-4F021-109V60-F-XX-UDD\_4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P888298

CATALOG NUMBER: DPT5-4F021-109V60-F-XX-UDD\_4000K

**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°	9938	9938	9938
5°	9959	9847	9906
10°	9884	9755	9755
15°	9767	9556	9480
20°	9614	9280	9169
25°	9439	9010	8811
30°	9221	8691	8415
35°	8997	8365	7971
40°	8788	8023	7534
45°	8534	7641	7059
50°	8279	7227	6563
55°	7982	6833	6033
60°	7684	6349	5462
65°	7337	5793	4811
70°	6938	5088	4149
75°	6381	4293	3453
80°	5618	3373	2901
85°	4723	2765	2592



TEST NUMBER: P888298

CATALOG NUMBER: DPT5-4F021-109V60-F-XX-UDD\_4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.9	4.0
10°-20°	156.2	11.1
20°-30°	226.5	16.1
30°-40°	258.0	18.4
40°-50°	251.5	17.9
50°-60°	211.6	15.1
60°-70°	148.3	10.6
70°-80°	76.0	5.4
80°-90°	19.0	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°	438.5	31.3
0°-40°	696.6	49.6
0°-60°	1159.7	82.7
0°-90°	1403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1403.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	594	594	594	594	594	
5°	593	591	586	591	590	56
15°	564	561	552	551	547	159
25°	511	504	488	482	477	235
35°	440	430	410	396	390	276
45°	361	348	323	305	298	278
55°	274	259	234	214	207	245
65°	185	170	146	128	122	183
75°	99	85	66	57	53	104
85°	25	17	14	14	14	28
90°	0	0	0	0	0	



TEST NUMBER: P888298

CATALOG NUMBER: DPT5-4F021-109V60-F-XX-UDD\_4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	593.9	593.9	593.9	593.9	593.9
2.5°	595.2	593.9	589.4	593.9	593.4
5°	592.9	591.2	586.2	590.6	589.7
7.5°	588.5	586.6	580.8	584.4	583.5
10°	581.7	580.4	574.1	575.5	574.1
12.5°	574.1	572.2	563.2	564.2	562.0
15°	563.8	561.1	551.6	551.2	547.2
17.5°	553.0	549.0	537.7	535.5	532.4
20°	539.9	535.5	521.1	518.9	514.9
22.5°	525.6	521.1	506.0	501.0	497.8
25°	511.2	504.5	488.0	482.1	477.2
27.5°	495.2	487.0	469.6	462.0	457.1
30°	477.2	468.7	449.8	439.6	435.5
32.5°	459.7	449.4	430.1	418.5	413.2
35°	440.4	429.7	409.5	396.5	390.2
37.5°	422.1	409.0	388.4	373.2	366.8
40°	402.3	388.9	367.3	350.3	344.9
42.5°	381.6	367.7	345.3	329.2	320.6
45°	360.6	347.7	322.9	305.0	298.3
47.5°	338.5	325.2	300.4	282.1	274.5
50°	318.0	303.2	277.6	258.8	252.1
52.5°	295.5	280.4	256.5	235.9	229.1
55°	273.6	259.2	234.2	214.0	206.8
57.5°	251.2	235.9	211.7	191.9	185.7
60°	229.6	214.0	189.7	170.0	163.2
62.5°	206.8	191.9	167.3	149.3	142.6
65°	185.3	170.0	146.3	128.2	121.5
67.5°	163.6	148.5	125.5	108.6	103.2
70°	141.8	126.5	104.0	90.1	84.8
72.5°	120.2	105.4	84.8	72.2	69.1
75°	98.7	85.2	66.4	56.6	53.4
77.5°	76.6	65.9	50.2	42.7	39.9
80°	58.3	47.6	35.0	30.9	30.1
82.5°	40.4	30.9	23.4	21.9	21.5
85°	24.6	16.6	14.4	13.9	13.5
87.5°	10.4	7.2	6.7	6.7	6.2
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)