

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: P888022

Luminaire Tested: **DPT5-4F021-109V60-A-XX-UDD\_3500K**

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: P888022  
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-A-XX-UDD\_3500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

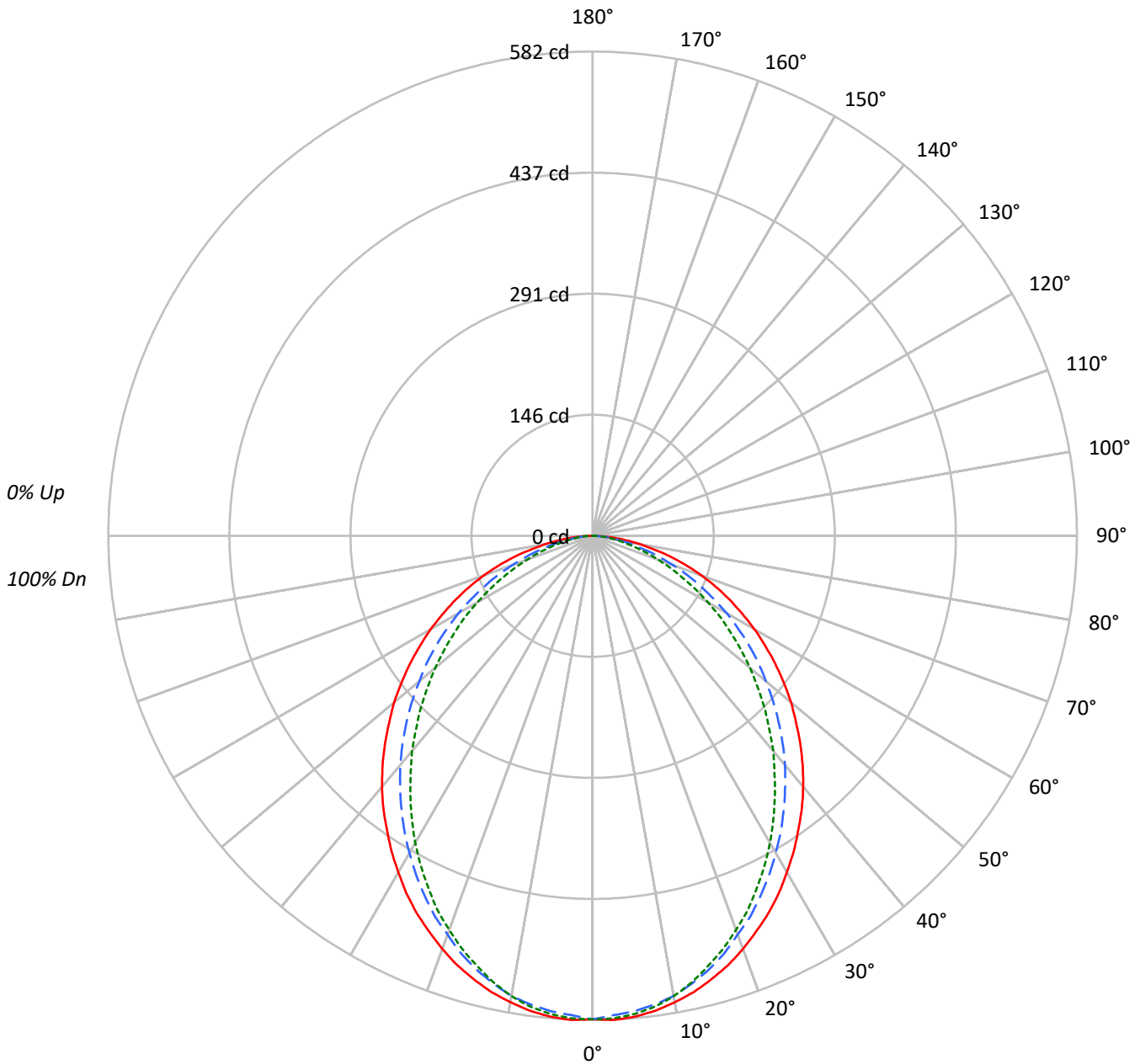
Lumens per Lamp: N/A  
Luminaire Lumens: 1373.0 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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°	9726	9726	9726
5°	9748	9637	9694
10°	9673	9546	9546
15°	9559	9352	9277
20°	9410	9082	8973
25°	9237	8816	8623
30°	9024	8506	8235
35°	8805	8186	7802
40°	8600	7853	7375
45°	8351	7478	6908
50°	8101	7073	6422
55°	7813	6687	5905
60°	7520	6212	5345
65°	7179	5666	4708
70°	6786	4981	4061
75°	6246	4203	3381
80°	5502	3305	2843
85°	4627	2707	2534



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.7	4.0
10°-20°	152.8	11.1
20°-30°	221.6	16.1
30°-40°	252.5	18.4
40°-50°	246.1	17.9
50°-60°	207.1	15.1
60°-70°	145.1	10.6
70°-80°	74.4	5.4
80°-90°	18.6	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°	429.2	31.3
0°-40°	681.7	49.6
0°-60°	1134.9	82.7
0°-90°	1373.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1373.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	580	579	574	578	577	55
15°	552	549	540	539	536	156
25°	500	494	478	472	467	230
35°	431	420	401	388	382	270
45°	353	340	316	298	292	272
55°	268	254	229	209	202	239
65°	181	166	143	126	119	179
75°	97	83	65	55	52	102
85°	24	16	14	14	13	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	581.2	581.2	581.2	581.2	581.2
2.5°	582.5	581.2	576.8	581.2	580.7
5°	580.3	578.6	573.7	578.0	577.1
7.5°	575.9	574.1	568.4	571.9	571.1
10°	569.3	568.0	561.8	563.2	561.8
12.5°	561.8	560.0	551.2	552.1	550.0
15°	551.8	549.1	539.8	539.4	535.5
17.5°	541.2	537.3	526.2	524.1	521.0
20°	528.4	524.1	510.0	507.8	503.9
22.5°	514.4	510.0	495.2	490.3	487.1
25°	500.3	493.7	477.5	471.8	467.0
27.5°	484.6	476.6	459.5	452.1	447.3
30°	467.0	458.7	440.2	430.2	426.2
32.5°	449.8	439.8	420.9	409.5	404.3
35°	431.0	420.5	400.7	388.0	381.9
37.5°	413.0	400.3	380.1	365.2	359.0
40°	393.7	380.5	359.5	342.8	337.6
42.5°	373.5	359.9	337.9	322.2	313.8
45°	352.9	340.2	316.0	298.5	291.9
47.5°	331.3	318.3	294.0	276.1	268.6
50°	311.2	296.7	271.7	253.3	246.7
52.5°	289.2	274.4	251.0	230.8	224.2
55°	267.8	253.7	229.2	209.4	202.4
57.5°	245.8	230.8	207.2	187.8	181.7
60°	224.7	209.4	185.6	166.3	159.7
62.5°	202.4	187.8	163.7	146.1	139.6
65°	181.3	166.3	143.1	125.5	118.9
67.5°	160.1	145.3	122.9	106.3	101.0
70°	138.7	123.8	101.8	88.2	83.0
72.5°	117.6	103.2	83.0	70.7	67.7
75°	96.6	83.4	65.0	55.4	52.3
77.5°	75.0	64.5	49.1	41.8	39.1
80°	57.1	46.6	34.3	30.3	29.5
82.5°	39.5	30.3	22.9	21.4	21.1
85°	24.1	16.2	14.1	13.6	13.2
87.5°	10.2	7.0	6.6	6.6	6.1
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)