

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: P888299

Luminaire Tested: **DPT5-4F021-109V60-F-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: P888299  
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\_4500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

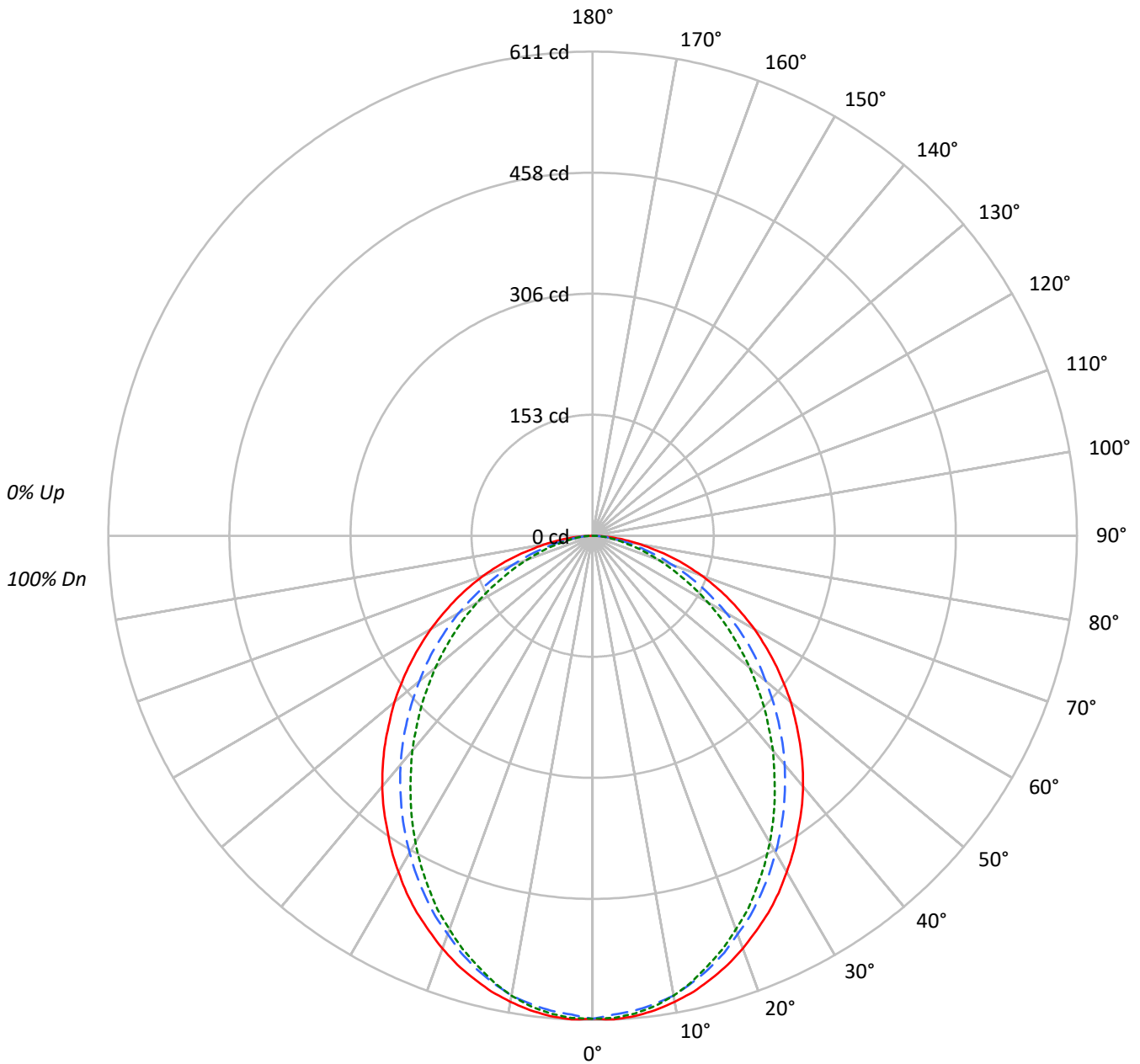
Lumens per Lamp: N/A  
Luminaire Lumens: 1440.0 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')  
CIE Type: Direct

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

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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°	10199	10199	10199
5°	10223	10107	10168
10°	10146	10012	10012
15°	10025	9807	9729
20°	9869	9525	9411
25°	9688	9247	9043
30°	9464	8921	8637
35°	9236	8586	8181
40°	9022	8235	7733
45°	8758	7843	7244
50°	8497	7419	6735
55°	8195	7014	6194
60°	7888	6516	5606
65°	7531	5943	4938
70°	7119	5220	4257
75°	6549	4403	3543
80°	5772	3460	2978
85°	4858	2842	2650



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.4	4.0
10°-20°	160.3	11.1
20°-30°	232.4	16.1
30°-40°	264.8	18.4
40°-50°	258.1	17.9
50°-60°	217.2	15.1
60°-70°	152.2	10.6
70°-80°	78.0	5.4
80°-90°	19.5	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°	450.1	31.3
0°-40°	714.9	49.6
0°-60°	1190.3	82.7
0°-90°	1440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1440.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	610	610	610	610	610	
5°	609	607	602	606	605	58
15°	579	576	566	566	562	163
25°	525	518	501	495	490	241
35°	452	441	420	407	400	283
45°	370	357	331	313	306	285
55°	281	266	240	220	212	251
65°	190	174	150	132	125	188
75°	101	87	68	58	55	107
85°	25	17	15	14	14	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	609.5	609.5	609.5	609.5	609.5
2.5°	610.9	609.5	604.9	609.5	609.0
5°	608.6	606.8	601.7	606.2	605.3
7.5°	604.0	602.1	596.1	599.8	598.9
10°	597.1	595.7	589.2	590.7	589.2
12.5°	589.2	587.3	578.1	579.0	576.8
15°	578.7	575.9	566.1	565.7	561.6
17.5°	567.6	563.5	551.9	549.7	546.4
20°	554.2	549.7	534.9	532.6	528.5
22.5°	539.5	534.9	519.3	514.2	510.9
25°	524.7	517.8	500.8	494.8	489.8
27.5°	508.2	499.9	481.9	474.2	469.1
30°	489.8	481.1	461.7	451.2	447.0
32.5°	471.8	461.3	441.5	429.5	424.1
35°	452.1	441.0	420.3	407.0	400.5
37.5°	433.2	419.8	398.6	383.1	376.5
40°	413.0	399.1	377.0	359.5	354.0
42.5°	391.7	377.4	354.4	337.9	329.1
45°	370.1	356.9	331.4	313.0	306.1
47.5°	347.5	333.8	308.3	289.6	281.7
50°	326.4	311.2	285.0	265.7	258.7
52.5°	303.3	287.8	263.3	242.1	235.2
55°	280.9	266.1	240.4	219.6	212.3
57.5°	257.8	242.1	217.3	197.0	190.6
60°	235.7	219.6	194.7	174.5	167.5
62.5°	212.3	197.0	171.7	153.3	146.4
65°	190.2	174.5	150.1	131.6	124.7
67.5°	168.0	152.4	128.9	111.4	106.0
70°	145.5	129.8	106.7	92.5	87.0
72.5°	123.4	108.2	87.0	74.1	71.0
75°	101.3	87.4	68.1	58.1	54.8
77.5°	78.6	67.6	51.5	43.8	41.0
80°	59.9	48.8	35.9	31.8	30.9
82.5°	41.4	31.8	24.0	22.5	22.1
85°	25.3	17.0	14.8	14.3	13.8
87.5°	10.7	7.3	6.9	6.9	6.4
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)