

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: P888025

Luminaire Tested: **DPT5-4F021-109V60-A-XX-UDD\_5000K**

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: P888025  
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\_5000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

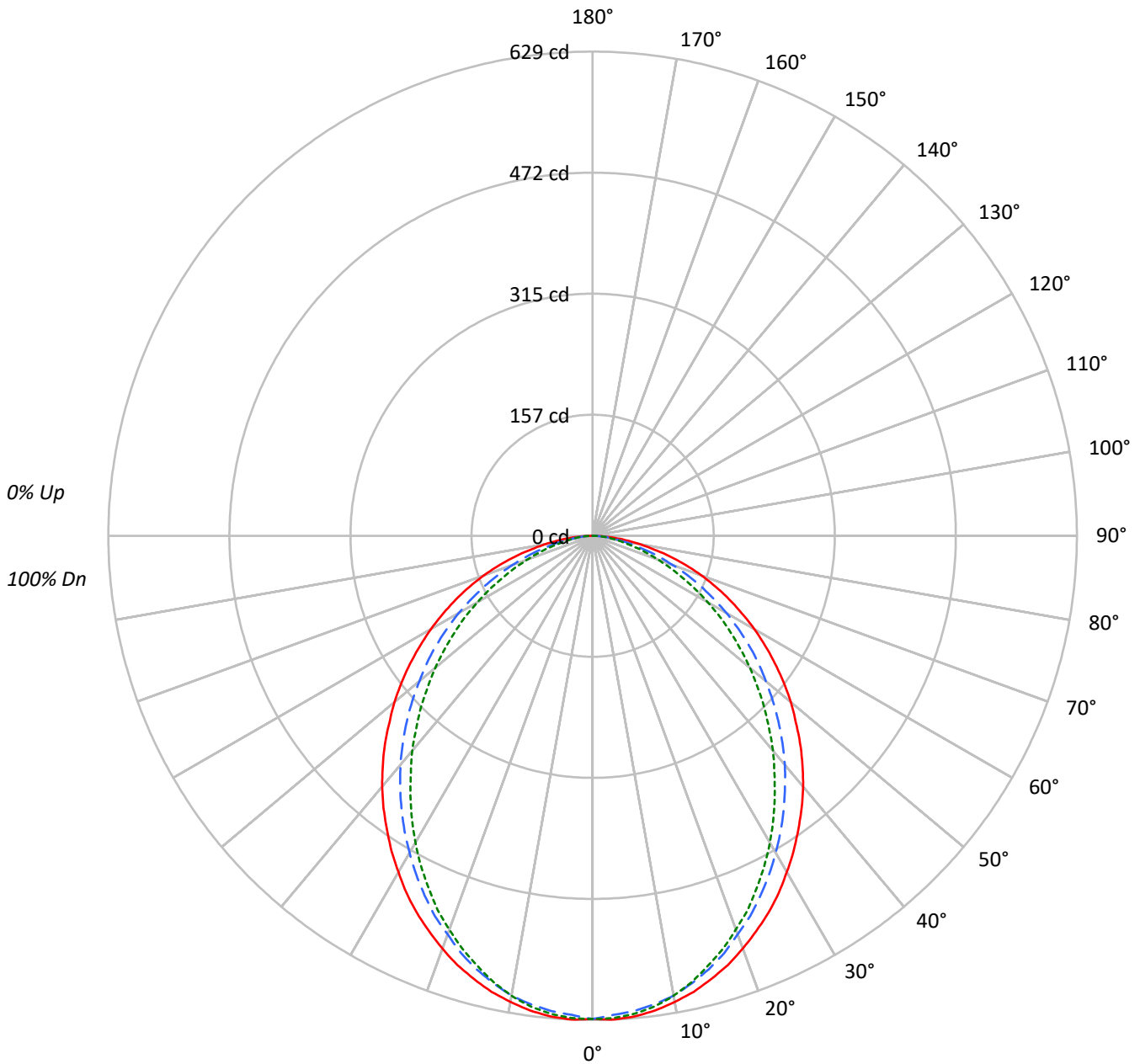
Lumens per Lamp: N/A  
Luminaire Lumens: 1483.0 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')  
CIE Type: Direct

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									
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°	10504	10504	10504
5°	10529	10408	10470
10°	10448	10311	10311
15°	10325	10100	10020
20°	10163	9810	9693
25°	9978	9524	9313
30°	9746	9188	8896
35°	9511	8841	8425
40°	9290	8482	7964
45°	9019	8077	7462
50°	8750	7641	6938
55°	8437	7224	6378
60°	8123	6710	5773
65°	7753	6121	5084
70°	7334	5377	4384
75°	6743	4539	3653
80°	5936	3566	3064
85°	4992	2918	2726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.1	4.0
10°-20°	165.1	11.1
20°-30°	239.4	16.1
30°-40°	272.7	18.4
40°-50°	265.8	17.9
50°-60°	223.7	15.1
60°-70°	156.8	10.6
70°-80°	80.4	5.4
80°-90°	20.0	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°	463.6	31.3
0°-40°	736.3	49.6
0°-60°	1225.8	82.7
0°-90°	1483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1483.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	627	625	620	624	623	59
15°	596	593	583	583	578	168
25°	540	533	516	510	504	249
35°	466	454	433	419	412	292
45°	381	368	341	322	315	294
55°	289	274	248	226	219	259
65°	196	180	155	136	128	194
75°	104	90	70	60	56	110
85°	26	18	15	15	14	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	627.7	627.7	627.7	627.7	627.7
2.5°	629.1	627.7	623.0	627.7	627.2
5°	626.8	624.9	619.6	624.3	623.3
7.5°	622.0	620.1	613.9	617.7	616.8
10°	614.9	613.5	606.8	608.3	606.8
12.5°	606.8	604.9	595.4	596.3	594.0
15°	596.0	593.1	583.0	582.6	578.4
17.5°	584.5	580.3	568.4	566.1	562.7
20°	570.7	566.1	550.9	548.5	544.3
22.5°	555.6	550.9	534.9	529.6	526.2
25°	540.4	533.3	515.8	509.6	504.4
27.5°	523.4	514.8	496.3	488.3	483.1
30°	504.4	495.5	475.5	464.7	460.4
32.5°	485.9	475.1	454.7	442.3	436.7
35°	465.6	454.2	432.8	419.1	412.4
37.5°	446.1	432.3	410.5	394.5	387.7
40°	425.3	411.0	388.3	370.2	364.6
42.5°	403.4	388.7	365.0	348.0	338.9
45°	381.1	367.5	341.3	322.4	315.3
47.5°	357.8	343.8	317.6	298.2	290.1
50°	336.1	320.5	293.5	273.6	266.5
52.5°	312.4	296.4	271.1	249.3	242.2
55°	289.2	274.0	247.6	226.2	218.6
57.5°	265.5	249.3	223.8	202.9	196.3
60°	242.7	226.2	200.5	179.7	172.5
62.5°	218.6	202.9	176.8	157.9	150.7
65°	195.8	179.7	154.6	135.5	128.4
67.5°	173.0	157.0	132.7	114.8	109.1
70°	149.9	133.7	109.9	95.2	89.6
72.5°	127.1	111.4	89.6	76.3	73.1
75°	104.3	90.1	70.2	59.8	56.5
77.5°	81.0	69.6	53.0	45.1	42.2
80°	61.6	50.3	37.0	32.7	31.8
82.5°	42.7	32.7	24.7	23.1	22.8
85°	26.0	17.5	15.2	14.7	14.2
87.5°	11.0	7.6	7.1	7.1	6.6
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)