

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: P888112

Luminaire Tested: **DPT5-4F029-61V60-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: P888112  
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: DPT5-4F029-61V60-A-XX-UDD\_4500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

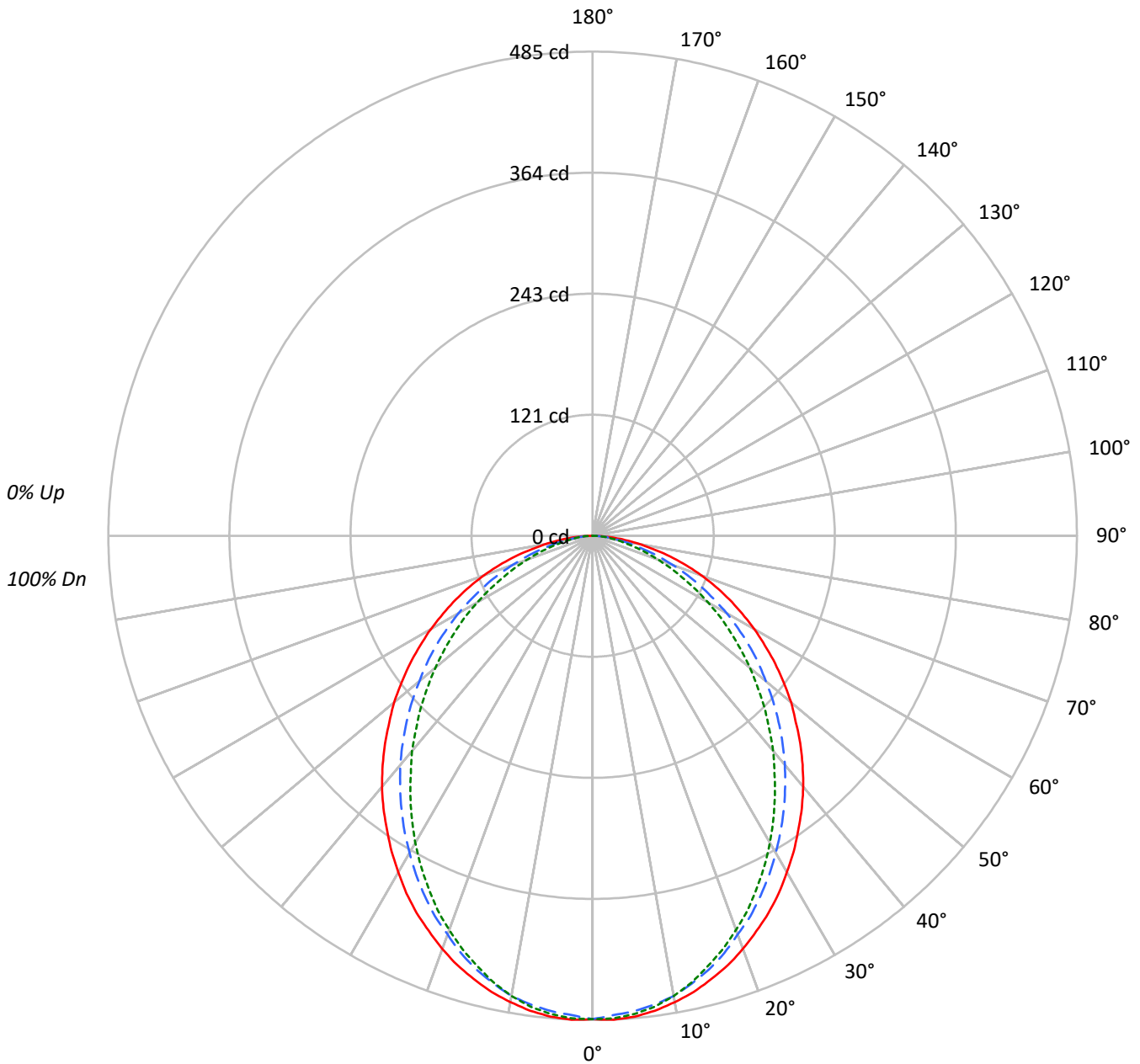
Lumens per Lamp: N/A  
Luminaire Lumens: 1144.0 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.5  
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°	5767	5767	5767
5°	5780	5715	5748
10°	5736	5661	5661
15°	5668	5546	5502
20°	5580	5385	5322
25°	5478	5229	5113
30°	5351	5044	4883
35°	5221	4855	4626
40°	5101	4656	4373
45°	4952	4435	4096
50°	4804	4195	3809
55°	4632	3966	3501
60°	4459	3685	3170
65°	4258	3362	2790
70°	4025	2953	2406
75°	3704	2489	2006
80°	3265	1962	1687
85°	2747	1599	1503



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.6	4.0
10°-20°	127.4	11.1
20°-30°	184.7	16.1
30°-40°	210.4	18.4
40°-50°	205.1	17.9
50°-60°	172.6	15.1
60°-70°	120.9	10.6
70°-80°	62.0	5.4
80°-90°	15.5	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°	357.6	31.3
0°-40°	568.0	49.6
0°-60°	945.6	82.7
0°-90°	1144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1144.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	484	482	478	482	481	46
15°	460	458	450	449	446	130
25°	417	411	398	393	389	192
35°	359	350	334	323	318	225
45°	294	284	263	249	243	227
55°	223	211	191	174	169	199
65°	151	139	119	104	99	150
75°	80	70	54	46	44	85
85°	20	14	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°	484.2	484.2	484.2	484.2	484.2
2.5°	485.3	484.2	480.6	484.2	483.8
5°	483.5	482.1	478.0	481.6	480.8
7.5°	479.8	478.3	473.6	476.5	475.8
10°	474.3	473.2	468.1	469.2	468.1
12.5°	468.1	466.6	459.3	460.0	458.2
15°	459.7	457.5	449.8	449.4	446.2
17.5°	450.9	447.7	438.4	436.7	434.1
20°	440.3	436.7	424.9	423.1	419.9
22.5°	428.6	424.9	412.6	408.5	405.9
25°	416.9	411.4	397.9	393.1	389.1
27.5°	403.8	397.1	382.9	376.7	372.7
30°	389.1	382.2	366.8	358.5	355.1
32.5°	374.8	366.5	350.7	341.2	336.9
35°	359.1	350.4	333.9	323.3	318.2
37.5°	344.1	333.5	316.7	304.3	299.1
40°	328.1	317.1	299.5	285.6	281.3
42.5°	311.2	299.8	281.5	268.4	261.5
45°	294.0	283.5	263.3	248.7	243.2
47.5°	276.0	265.2	245.0	230.0	223.8
50°	259.3	247.2	226.4	211.0	205.6
52.5°	241.0	228.6	209.1	192.3	186.8
55°	223.1	211.4	191.0	174.5	168.6
57.5°	204.8	192.3	172.6	156.5	151.4
60°	187.2	174.5	154.7	138.6	133.1
62.5°	168.6	156.5	136.4	121.8	116.3
65°	151.1	138.6	119.3	104.5	99.0
67.5°	133.4	121.1	102.4	88.5	84.2
70°	115.6	103.1	84.8	73.5	69.1
72.5°	98.0	86.0	69.1	58.9	56.4
75°	80.5	69.5	54.1	46.1	43.6
77.5°	62.5	53.7	40.9	34.8	32.6
80°	47.6	38.8	28.6	25.2	24.6
82.5°	32.9	25.2	19.1	17.8	17.6
85°	20.1	13.5	11.7	11.3	11.0
87.5°	8.5	5.8	5.5	5.5	5.1
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)