

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: P888032

Luminaire Tested: **DPT5-4F021-127V60-A-XX-UDD\_3000K**

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: P888032  
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: DPT5-4F021-127V60-A-XX-UDD\_3000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

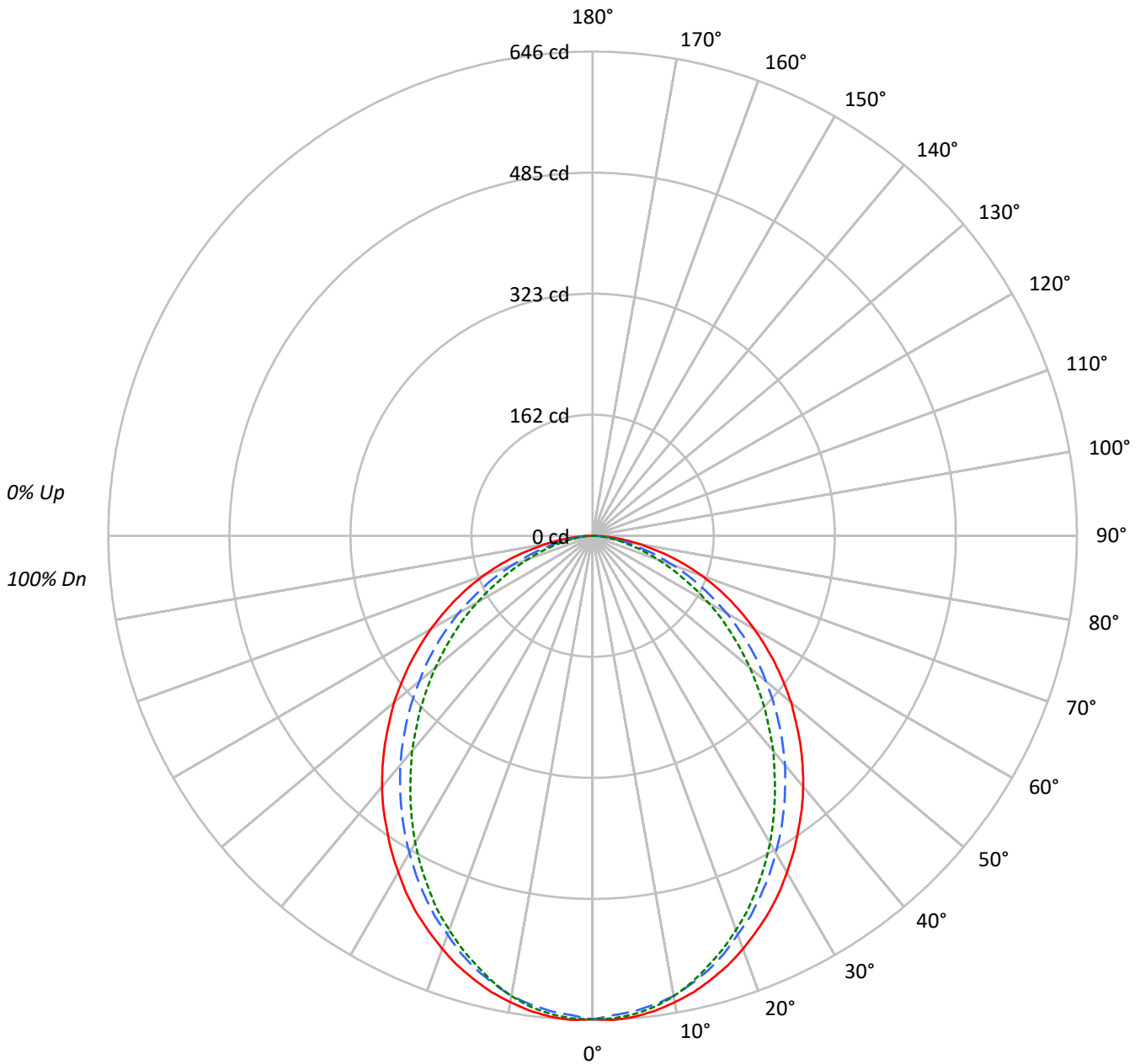
Lumens per Lamp: N/A  
Luminaire Lumens: 1524.0 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 17  
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°	10795	10795	10795
5°	10819	10697	10761
10°	10737	10596	10596
15°	10611	10381	10297
20°	10444	10081	9960
25°	10253	9786	9572
30°	10017	9441	9141
35°	9773	9086	8657
40°	9546	8716	8185
45°	9270	8299	7667
50°	8992	7852	7128
55°	8671	7422	6555
60°	8347	6894	5934
65°	7971	6292	5223
70°	7535	5529	4506
75°	6931	4662	3750
80°	6110	3662	3151
85°	5146	2995	2803



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.7	4.0
10°-20°	169.7	11.1
20°-30°	246.0	16.1
30°-40°	280.3	18.4
40°-50°	273.2	17.9
50°-60°	229.9	15.1
60°-70°	161.1	10.6
70°-80°	82.6	5.4
80°-90°	20.6	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°	476.4	31.3
0°-40°	756.6	49.6
0°-60°	1259.7	82.7
0°-90°	1524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1524.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	645	645	645	645	645	
5°	644	642	637	642	641	61
15°	612	610	599	599	594	173
25°	555	548	530	524	518	256
35°	478	467	445	431	424	300
45°	392	378	351	331	324	302
55°	297	282	254	232	225	266
65°	201	185	159	139	132	199
75°	107	92	72	62	58	113
85°	27	18	16	15	15	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	645.1	645.1	645.1	645.1	645.1
2.5°	646.5	645.1	640.2	645.1	644.5
5°	644.1	642.2	636.8	641.6	640.6
7.5°	639.2	637.2	630.9	634.8	633.9
10°	631.9	630.4	623.6	625.1	623.6
12.5°	623.6	621.6	611.8	612.8	610.5
15°	612.5	609.5	599.2	598.7	594.4
17.5°	600.7	596.4	584.1	581.7	578.3
20°	586.5	581.7	566.1	563.7	559.3
22.5°	571.0	566.1	549.6	544.2	540.7
25°	555.3	548.0	530.0	523.7	518.4
27.5°	537.9	529.0	510.1	501.8	496.5
30°	518.4	509.2	488.6	477.5	473.1
32.5°	499.3	488.2	467.2	454.6	448.8
35°	478.4	466.8	444.8	430.7	423.8
37.5°	458.5	444.3	421.9	405.4	398.5
40°	437.0	422.4	399.0	380.5	374.7
42.5°	414.5	399.4	375.0	357.6	348.3
45°	391.7	377.7	350.7	331.3	324.0
47.5°	367.7	353.3	326.3	306.5	298.1
50°	345.4	329.3	301.6	281.1	273.8
52.5°	321.0	304.6	278.6	256.2	248.9
55°	297.2	281.6	254.4	232.4	224.7
57.5°	272.8	256.2	230.0	208.5	201.7
60°	249.4	232.4	206.0	184.6	177.3
62.5°	224.7	208.5	181.7	162.2	154.9
65°	201.3	184.6	158.9	139.3	131.9
67.5°	177.8	161.3	136.4	117.9	112.2
70°	154.0	137.4	113.0	97.9	92.1
72.5°	130.6	114.5	92.1	78.4	75.1
75°	107.2	92.5	72.1	61.5	58.0
77.5°	83.2	71.6	54.5	46.4	43.4
80°	63.4	51.7	38.0	33.6	32.7
82.5°	43.8	33.6	25.4	23.8	23.4
85°	26.8	18.0	15.6	15.1	14.6
87.5°	11.3	7.8	7.3	7.3	6.8
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)