

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: P888044

Luminaire Tested: **DPT5-4F021-37V60-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: P888044  
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: DPT5-4F021-37V60-A-XX-UDD\_3500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

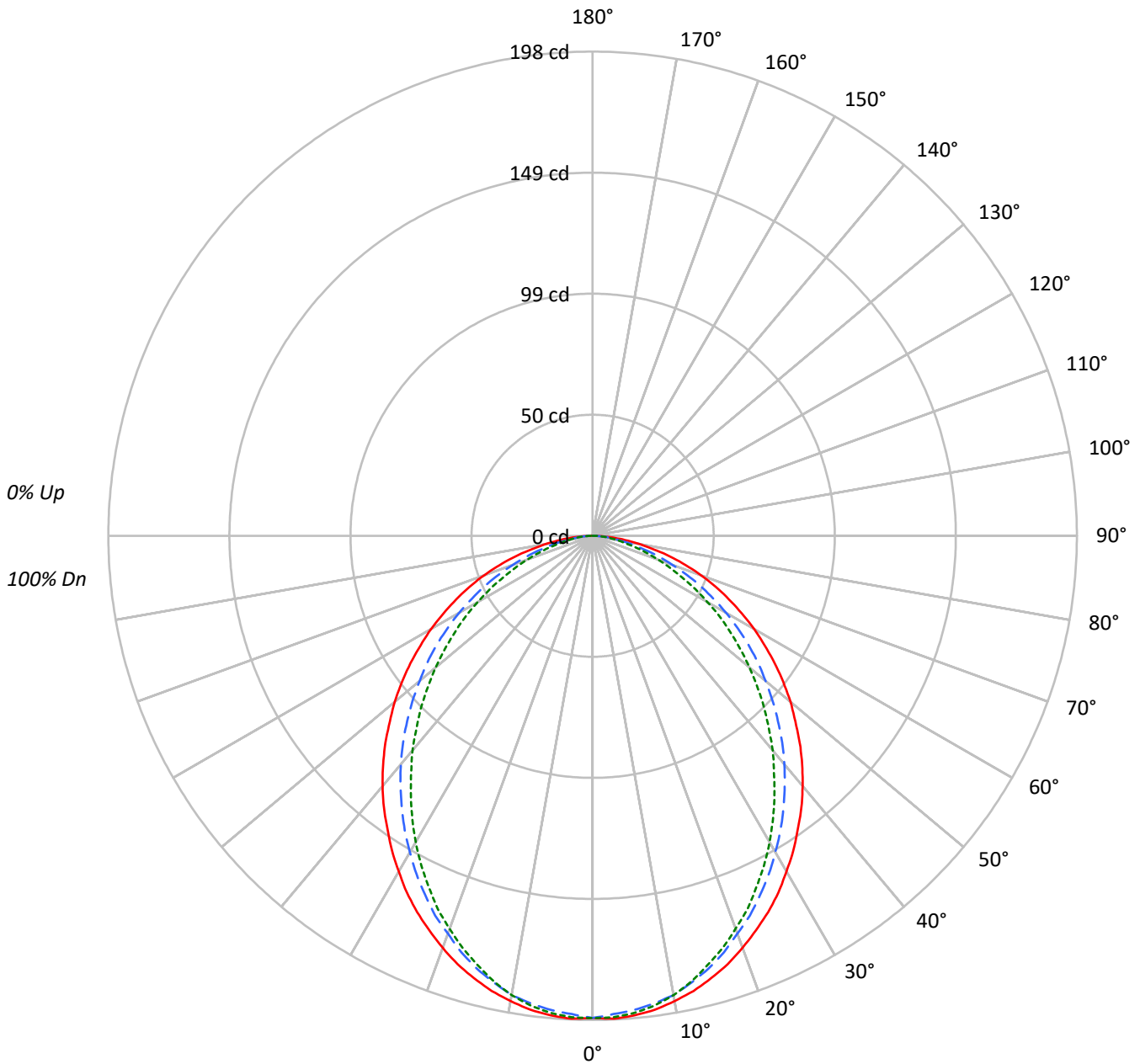
Lumens per Lamp: N/A  
Luminaire Lumens: 466.0 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	3300	3300	3300
5°	3307	3271	3291
10°	3283	3240	3240
15°	3245	3174	3148
20°	3193	3083	3045
25°	3135	2993	2926
30°	3063	2887	2796
35°	2989	2778	2647
40°	2918	2665	2503
45°	2835	2537	2345
50°	2749	2400	2179
55°	2652	2270	2004
60°	2554	2108	1814
65°	2435	1924	1596
70°	2304	1688	1380
75°	2121	1429	1144
80°	1869	1118	964
85°	1574	922	864



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.6	4.0
10°-20°	51.9	11.1
20°-30°	75.2	16.1
30°-40°	85.7	18.4
40°-50°	83.5	17.9
50°-60°	70.3	15.1
60°-70°	49.3	10.6
70°-80°	25.3	5.4
80°-90°	6.3	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°	145.7	31.3
0°-40°	231.4	49.6
0°-60°	385.2	82.7
0°-90°	466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	466.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	197	197	197	197	197	
5°	197	196	195	196	196	19
15°	187	186	183	183	182	53
25°	170	168	162	160	158	78
35°	146	143	136	132	130	92
45°	120	116	107	101	99	92
55°	91	86	78	71	69	81
65°	62	56	49	43	40	61
75°	33	28	22	19	18	35
85°	8	6	5	5	4	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	197.2	197.2	197.2	197.2	197.2
2.5°	197.7	197.2	195.8	197.2	197.1
5°	196.9	196.4	194.7	196.2	195.9
7.5°	195.5	194.8	192.9	194.1	193.8
10°	193.2	192.8	190.7	191.1	190.7
12.5°	190.7	190.1	187.1	187.4	186.7
15°	187.3	186.4	183.2	183.1	181.7
17.5°	183.7	182.4	178.6	177.9	176.8
20°	179.3	177.9	173.1	172.4	171.0
22.5°	174.6	173.1	168.1	166.4	165.3
25°	169.8	167.6	162.1	160.1	158.5
27.5°	164.5	161.8	156.0	153.4	151.8
30°	158.5	155.7	149.4	146.0	144.7
32.5°	152.7	149.3	142.9	139.0	137.2
35°	146.3	142.7	136.0	131.7	129.6
37.5°	140.2	135.8	129.0	124.0	121.8
40°	133.6	129.2	122.0	116.3	114.6
42.5°	126.8	122.1	114.7	109.3	106.5
45°	119.8	115.5	107.2	101.3	99.1
47.5°	112.4	108.0	99.8	93.7	91.2
50°	105.6	100.7	92.2	86.0	83.7
52.5°	98.2	93.1	85.2	78.3	76.1
55°	90.9	86.1	77.8	71.1	68.7
57.5°	83.4	78.3	70.3	63.8	61.7
60°	76.3	71.1	63.0	56.5	54.2
62.5°	68.7	63.8	55.6	49.6	47.4
65°	61.5	56.5	48.6	42.6	40.3
67.5°	54.4	49.3	41.7	36.1	34.3
70°	47.1	42.0	34.5	29.9	28.2
72.5°	39.9	35.0	28.2	24.0	23.0
75°	32.8	28.3	22.1	18.8	17.7
77.5°	25.5	21.9	16.7	14.2	13.3
80°	19.4	15.8	11.6	10.3	10.0
82.5°	13.4	10.3	7.8	7.3	7.2
85°	8.2	5.5	4.8	4.6	4.5
87.5°	3.5	2.4	2.2	2.2	2.1
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)