

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: P888320

Luminaire Tested: **DPT5-4F021-37V60-F-XX-UDD\_4000K**

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: P888320  
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-F-XX-UDD\_4000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

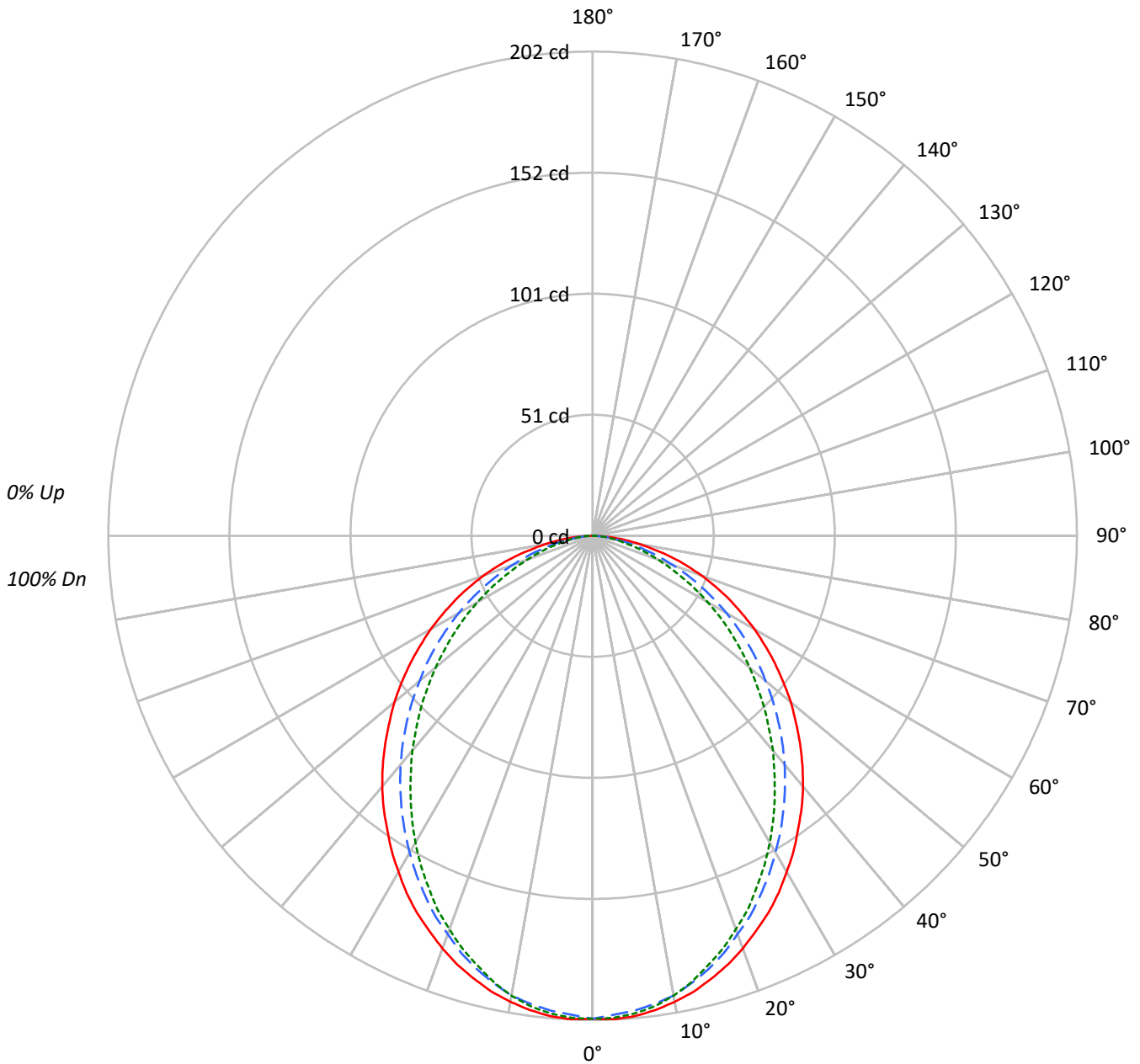
Lumens per Lamp: N/A  
Luminaire Lumens: 476.0 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	3372	3372	3372
5°	3380	3341	3361
10°	3354	3310	3310
15°	3314	3241	3215
20°	3262	3148	3111
25°	3203	3056	2989
30°	3128	2949	2856
35°	3052	2837	2705
40°	2982	2722	2556
45°	2894	2591	2395
50°	2809	2452	2226
55°	2707	2319	2048
60°	2607	2155	1854
65°	2491	1964	1631
70°	2353	1727	1409
75°	2166	1455	1170
80°	1908	1147	983
85°	1613	941	883



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.0	4.0
10°-20°	53.0	11.1
20°-30°	76.8	16.1
30°-40°	87.5	18.4
40°-50°	85.3	17.9
50°-60°	71.8	15.1
60°-70°	50.3	10.6
70°-80°	25.8	5.4
80°-90°	6.4	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°	148.8	31.3
0°-40°	236.3	49.6
0°-60°	393.4	82.7
0°-90°	476.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	476.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	202	202	202	202	202	
5°	201	201	199	200	200	19
15°	191	190	187	187	186	54
25°	174	171	166	164	162	80
35°	149	146	139	134	132	94
45°	122	118	110	104	101	94
55°	93	88	80	73	70	83
65°	63	58	50	44	41	62
75°	34	29	22	19	18	35
85°	8	6	5	5	5	10
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	201.5	201.5	201.5	201.5	201.5
2.5°	201.9	201.5	200.0	201.5	201.3
5°	201.2	200.6	198.9	200.4	200.1
7.5°	199.6	199.0	197.0	198.3	198.0
10°	197.4	196.9	194.8	195.2	194.8
12.5°	194.8	194.1	191.1	191.4	190.7
15°	191.3	190.4	187.1	187.0	185.6
17.5°	187.6	186.3	182.4	181.7	180.6
20°	183.2	181.7	176.8	176.0	174.7
22.5°	178.3	176.8	171.7	170.0	168.9
25°	173.5	171.2	165.5	163.6	161.9
27.5°	168.0	165.2	159.3	156.7	155.1
30°	161.9	159.0	152.6	149.1	147.8
32.5°	156.0	152.5	145.9	142.0	140.2
35°	149.4	145.8	138.9	134.5	132.4
37.5°	143.2	138.8	131.8	126.6	124.5
40°	136.5	131.9	124.6	118.8	117.0
42.5°	129.5	124.8	117.1	111.7	108.8
45°	122.3	118.0	109.5	103.5	101.2
47.5°	114.9	110.3	101.9	95.7	93.1
50°	107.9	102.9	94.2	87.8	85.5
52.5°	100.3	95.1	87.0	80.0	77.7
55°	92.8	88.0	79.5	72.6	70.2
57.5°	85.2	80.0	71.8	65.1	63.0
60°	77.9	72.6	64.4	57.7	55.4
62.5°	70.2	65.1	56.8	50.7	48.4
65°	62.9	57.7	49.6	43.5	41.2
67.5°	55.5	50.4	42.6	36.8	35.0
70°	48.1	42.9	35.3	30.6	28.8
72.5°	40.8	35.8	28.8	24.5	23.5
75°	33.5	28.9	22.5	19.2	18.1
77.5°	26.0	22.4	17.0	14.5	13.5
80°	19.8	16.1	11.9	10.5	10.2
82.5°	13.7	10.5	7.9	7.4	7.3
85°	8.4	5.6	4.9	4.7	4.6
87.5°	3.5	2.4	2.3	2.3	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)