

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: P888383

Luminaire Tested: **DPT5-4F029-61V60-F-XX-UDD\_2700K**

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: P888383  
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-F-XX-UDD\_2700K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

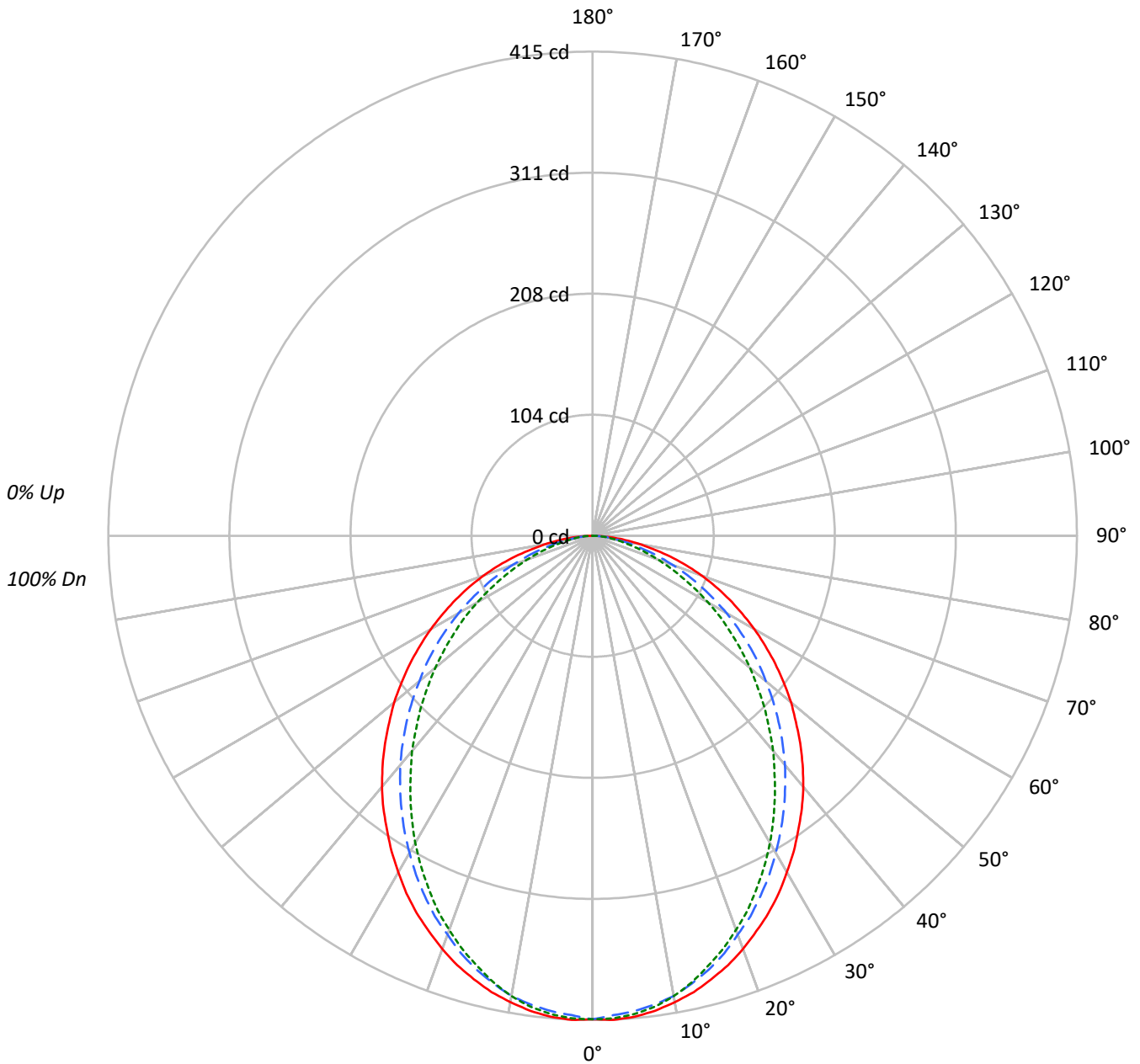
Lumens per Lamp: N/A  
Luminaire Lumens: 979.0 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

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°	4935	4935	4935
5°	4947	4890	4920
10°	4909	4845	4845
15°	4851	4746	4707
20°	4776	4610	4554
25°	4687	4474	4376
30°	4579	4317	4179
35°	4468	4154	3959
40°	4366	3985	3742
45°	4238	3795	3505
50°	4111	3589	3259
55°	3964	3393	2996
60°	3816	3154	2713
65°	3644	2877	2390
70°	3444	2528	2061
75°	3170	2131	1716
80°	2791	1673	1440
85°	2350	1366	1284



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.0	4.0
10°-20°	109.0	11.1
20°-30°	158.0	16.1
30°-40°	180.0	18.4
40°-50°	175.5	17.9
50°-60°	147.7	15.1
60°-70°	103.5	10.6
70°-80°	53.1	5.4
80°-90°	13.2	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°	306.0	31.3
0°-40°	486.0	49.6
0°-60°	809.2	82.7
0°-90°	979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	979.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	414	414	414	414	414	
5°	414	412	409	412	412	39
15°	393	392	385	385	382	111
25°	357	352	340	336	333	164
35°	307	300	286	277	272	192
45°	252	243	225	213	208	194
55°	191	181	163	149	144	171
65°	129	119	102	90	85	128
75°	69	59	46	40	37	73
85°	17	12	10	10	9	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	414.4	414.4	414.4	414.4	414.4
2.5°	415.3	414.4	411.3	414.4	414.0
5°	413.8	412.5	409.0	412.1	411.5
7.5°	410.6	409.3	405.3	407.8	407.2
10°	405.9	405.0	400.6	401.6	400.6
12.5°	400.6	399.3	393.0	393.7	392.2
15°	393.4	391.5	384.9	384.6	381.8
17.5°	385.9	383.1	375.2	373.7	371.5
20°	376.8	373.7	363.7	362.1	359.3
22.5°	366.8	363.7	353.1	349.6	347.3
25°	356.7	352.0	340.5	336.4	333.0
27.5°	345.5	339.8	327.7	322.4	318.9
30°	333.0	327.1	313.9	306.8	303.9
32.5°	320.7	313.6	300.1	292.0	288.3
35°	307.3	299.8	285.7	276.7	272.3
37.5°	294.5	285.4	271.0	260.4	256.0
40°	280.8	271.3	256.3	244.4	240.7
42.5°	266.3	256.6	240.9	229.7	223.7
45°	251.6	242.6	225.3	212.8	208.1
47.5°	236.2	226.9	209.6	196.9	191.5
50°	221.9	211.5	193.7	180.6	175.9
52.5°	206.2	195.6	179.0	164.6	159.9
55°	190.9	180.9	163.4	149.3	144.3
57.5°	175.3	164.6	147.7	133.9	129.6
60°	160.2	149.3	132.4	118.6	113.9
62.5°	144.3	133.9	116.7	104.2	99.5
65°	129.3	118.6	102.1	89.5	84.8
67.5°	114.2	103.6	87.6	75.8	72.0
70°	98.9	88.2	72.6	62.9	59.2
72.5°	83.9	73.6	59.2	50.4	48.2
75°	68.9	59.4	46.3	39.5	37.3
77.5°	53.5	46.0	35.0	29.8	27.9
80°	40.7	33.2	24.4	21.6	21.0
82.5°	28.2	21.6	16.3	15.3	15.0
85°	17.2	11.6	10.0	9.7	9.4
87.5°	7.3	5.0	4.7	4.7	4.4
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)