

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: P888086

Luminaire Tested: **DPT5-4F029-127V60-A-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: P888086  
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: DPT5-4F029-127V60-A-XX-UDD\_2700K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

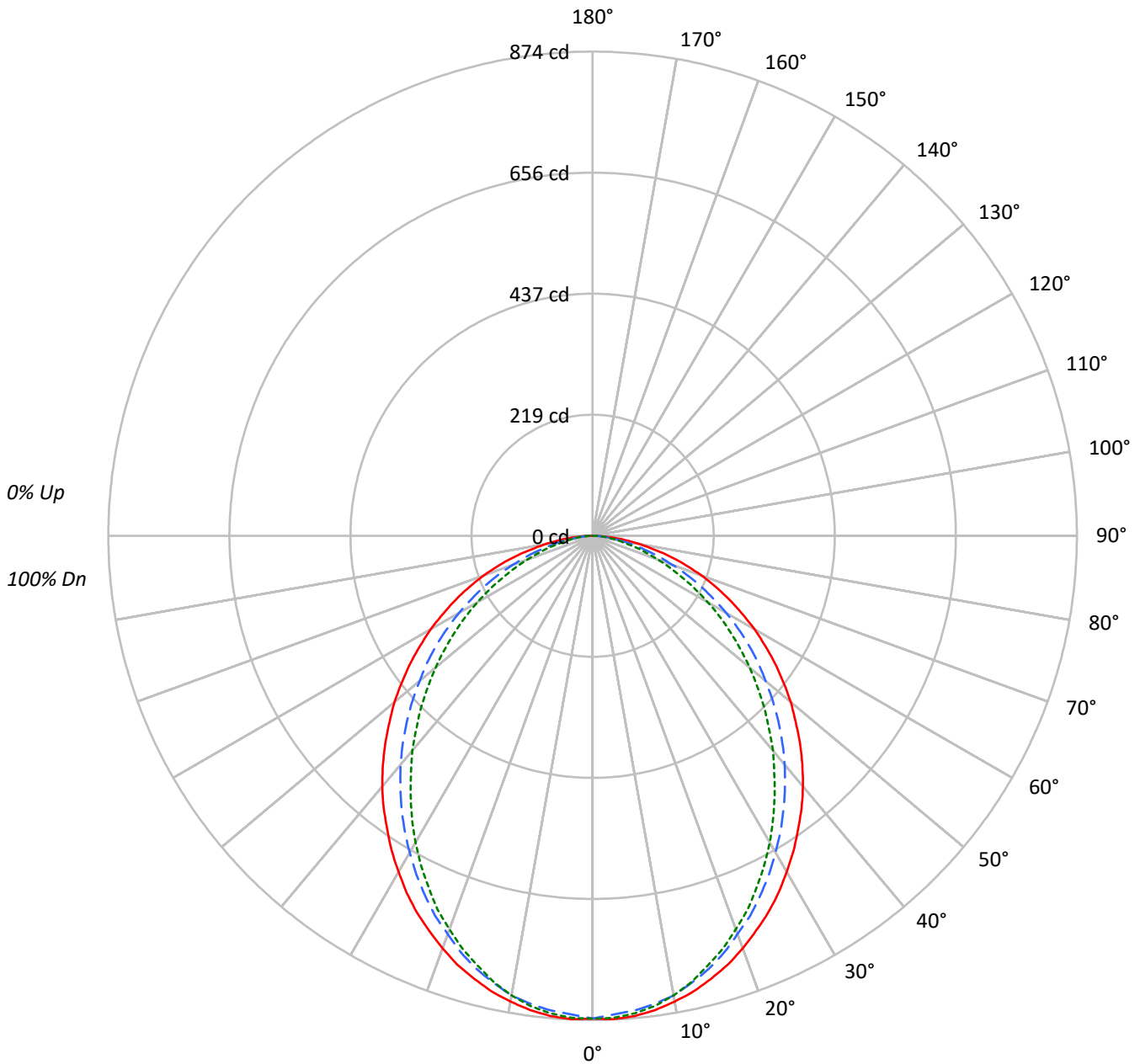
Lumens per Lamp: N/A  
Luminaire Lumens: 2059.0 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 24  
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

TEST NUMBER: P888086

CATALOG NUMBER: DPT5-4F029-127V60-A-XX-UDD\_2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P888086

CATALOG NUMBER: DPT5-4F029-127V60-A-XX-UDD\_2700K

**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°	10379	10379	10379
5°	10403	10285	10346
10°	10324	10189	10189
15°	10203	9981	9901
20°	10043	9693	9578
25°	9860	9410	9204
30°	9632	9079	8790
35°	9398	8738	8325
40°	9180	8381	7870
45°	8913	7982	7372
50°	8647	7548	6855
55°	8339	7137	6302
60°	8027	6631	5707
65°	7662	6048	5025
70°	7246	5314	4332
75°	6663	4482	3608
80°	5871	3525	3031
85°	4933	2883	2706



TEST NUMBER: P888086

CATALOG NUMBER: DPT5-4F029-127V60-A-XX-UDD\_2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.0	4.0
10°-20°	229.2	11.1
20°-30°	332.4	16.1
30°-40°	378.7	18.4
40°-50°	369.1	17.9
50°-60°	310.6	15.1
60°-70°	217.6	10.6
70°-80°	111.6	5.4
80°-90°	27.8	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°	643.6	31.3
0°-40°	1022.3	49.6
0°-60°	1701.9	82.7
0°-90°	2059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2059.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	870	868	860	867	865	83
15°	828	823	810	809	803	233
25°	750	740	716	708	700	345
35°	646	631	601	582	573	405
45°	529	510	474	448	438	408
55°	402	380	344	314	304	359
65°	272	249	215	188	178	269
75°	145	125	97	83	78	153
85°	36	24	21	20	20	42
90°	0	0	0	0	0	



TEST NUMBER: P888086

CATALOG NUMBER: DPT5-4F029-127V60-A-XX-UDD\_2700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	871.5	871.5	871.5	871.5	871.5
2.5°	873.5	871.5	864.9	871.5	870.8
5°	870.2	867.6	860.3	866.8	865.4
7.5°	863.6	860.9	852.4	857.6	856.4
10°	853.7	851.8	842.5	844.5	842.5
12.5°	842.5	839.8	826.6	827.9	824.8
15°	827.5	823.4	809.5	808.9	803.0
17.5°	811.6	805.7	789.1	785.9	781.3
20°	792.4	785.9	764.8	761.5	755.7
22.5°	771.4	764.8	742.6	735.3	730.5
25°	750.3	740.4	716.1	707.6	700.4
27.5°	726.7	714.8	689.1	678.0	670.8
30°	700.4	687.9	660.2	645.2	639.2
32.5°	674.6	659.6	631.2	614.2	606.3
35°	646.4	630.6	601.0	581.9	572.6
37.5°	619.4	600.2	570.0	547.7	538.3
40°	590.5	570.7	539.1	514.0	506.2
42.5°	560.1	539.7	506.7	483.1	470.6
45°	529.2	510.2	473.9	447.6	437.7
47.5°	496.8	477.3	440.9	414.0	402.8
50°	466.7	444.9	407.4	379.8	370.0
52.5°	433.7	411.5	376.4	346.1	336.3
55°	401.6	380.5	343.7	314.0	303.5
57.5°	368.6	346.1	310.7	281.7	272.5
60°	337.0	314.0	278.4	249.4	239.6
62.5°	303.5	281.7	245.5	219.2	209.3
65°	271.9	249.4	214.6	188.2	178.3
67.5°	240.2	217.9	184.2	159.3	151.5
70°	208.1	185.6	152.6	132.2	124.4
72.5°	176.4	154.7	124.4	106.0	101.5
75°	144.8	125.0	97.4	83.0	78.4
77.5°	112.5	96.7	73.6	62.6	58.6
80°	85.6	69.8	51.4	45.4	44.2
82.5°	59.2	45.4	34.3	32.1	31.6
85°	36.1	24.3	21.1	20.4	19.8
87.5°	15.3	10.5	9.9	9.9	9.2
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)