

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: P888092

Luminaire Tested: **DPT5-4F029-127V60-A-XX-UDD\_6500K**

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: P888092  
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\_6500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

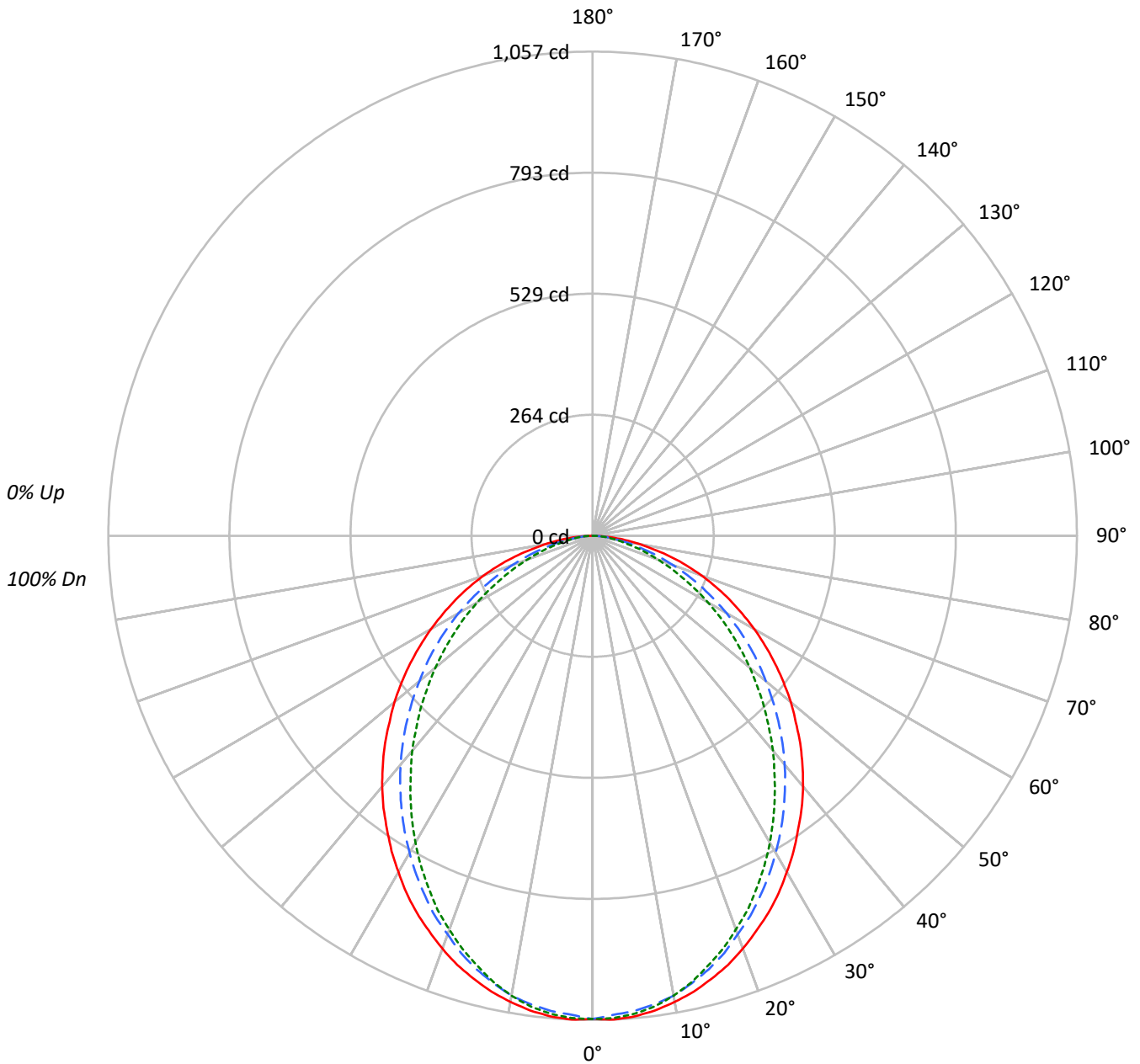
Lumens per Lamp: N/A  
Luminaire Lumens: 2492.0 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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

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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°	12562	12562	12562
5°	12591	12448	12522
10°	12495	12330	12330
15°	12348	12079	11983
20°	12156	11732	11592
25°	11933	11389	11138
30°	11656	10988	10639
35°	11374	10574	10077
40°	11110	10143	9526
45°	10788	9659	8923
50°	10465	9136	8297
55°	10091	8638	7629
60°	9716	8025	6905
65°	9274	7321	6081
70°	8768	6432	5244
75°	8066	5425	4367
80°	7105	4266	3669
85°	5971	3498	3266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.3	4.0
10°-20°	277.4	11.1
20°-30°	402.3	16.1
30°-40°	458.3	18.4
40°-50°	446.7	17.9
50°-60°	375.9	15.1
60°-70°	263.4	10.6
70°-80°	135.1	5.4
80°-90°	33.7	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°	778.9	31.3
0°-40°	1237.2	49.6
0°-60°	2059.8	82.7
0°-90°	2492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2492.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1053	1050	1041	1049	1047	100
15°	1002	997	980	979	972	282
25°	908	896	867	856	848	418
35°	782	763	727	704	693	490
45°	640	618	574	542	530	494
55°	486	460	416	380	367	435
65°	329	302	260	228	216	326
75°	175	151	118	100	95	185
85°	44	29	26	25	24	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1054.8	1054.8	1054.8	1054.8	1054.8
2.5°	1057.2	1054.8	1046.8	1054.8	1053.9
5°	1053.2	1050.1	1041.2	1049.1	1047.4
7.5°	1045.2	1042.0	1031.6	1038.0	1036.5
10°	1033.2	1030.9	1019.6	1022.2	1019.6
12.5°	1019.6	1016.4	1000.4	1002.1	998.2
15°	1001.5	996.6	979.7	979.0	971.9
17.5°	982.3	975.2	955.1	951.2	945.6
20°	959.1	951.2	925.7	921.7	914.6
22.5°	933.6	925.7	898.8	889.9	884.1
25°	908.1	896.1	866.7	856.4	847.6
27.5°	879.6	865.1	834.0	820.6	811.9
30°	847.6	832.6	799.0	780.8	773.6
32.5°	816.5	798.3	764.0	743.3	733.8
35°	782.3	763.3	727.3	704.3	693.1
37.5°	749.7	726.5	689.8	662.9	651.5
40°	714.6	690.7	652.4	622.1	612.7
42.5°	677.8	653.2	613.3	584.7	569.5
45°	640.5	617.5	573.5	541.7	529.8
47.5°	601.3	577.6	533.6	501.1	487.5
50°	564.8	538.5	493.1	459.7	447.8
52.5°	524.9	498.0	455.6	418.9	407.0
55°	486.0	460.5	416.0	380.1	367.4
57.5°	446.1	418.9	376.1	340.9	329.8
60°	407.9	380.1	336.9	301.9	289.9
62.5°	367.4	340.9	297.2	265.3	253.3
65°	329.1	301.9	259.8	227.7	215.8
67.5°	290.7	263.8	223.0	192.8	183.4
70°	251.8	224.6	184.7	160.0	150.6
72.5°	213.5	187.2	150.6	128.3	122.8
75°	175.3	151.3	117.9	100.5	94.9
77.5°	136.1	117.0	89.1	75.8	70.9
80°	103.6	84.5	62.2	55.0	53.5
82.5°	71.7	55.0	41.5	38.9	38.3
85°	43.7	29.4	25.6	24.7	23.9
87.5°	18.5	12.7	12.0	12.0	11.1
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)