

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: P888363

Luminaire Tested: **DPT5-4F029-127V60-F-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: P888363  
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-F-XX-UDD\_3500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

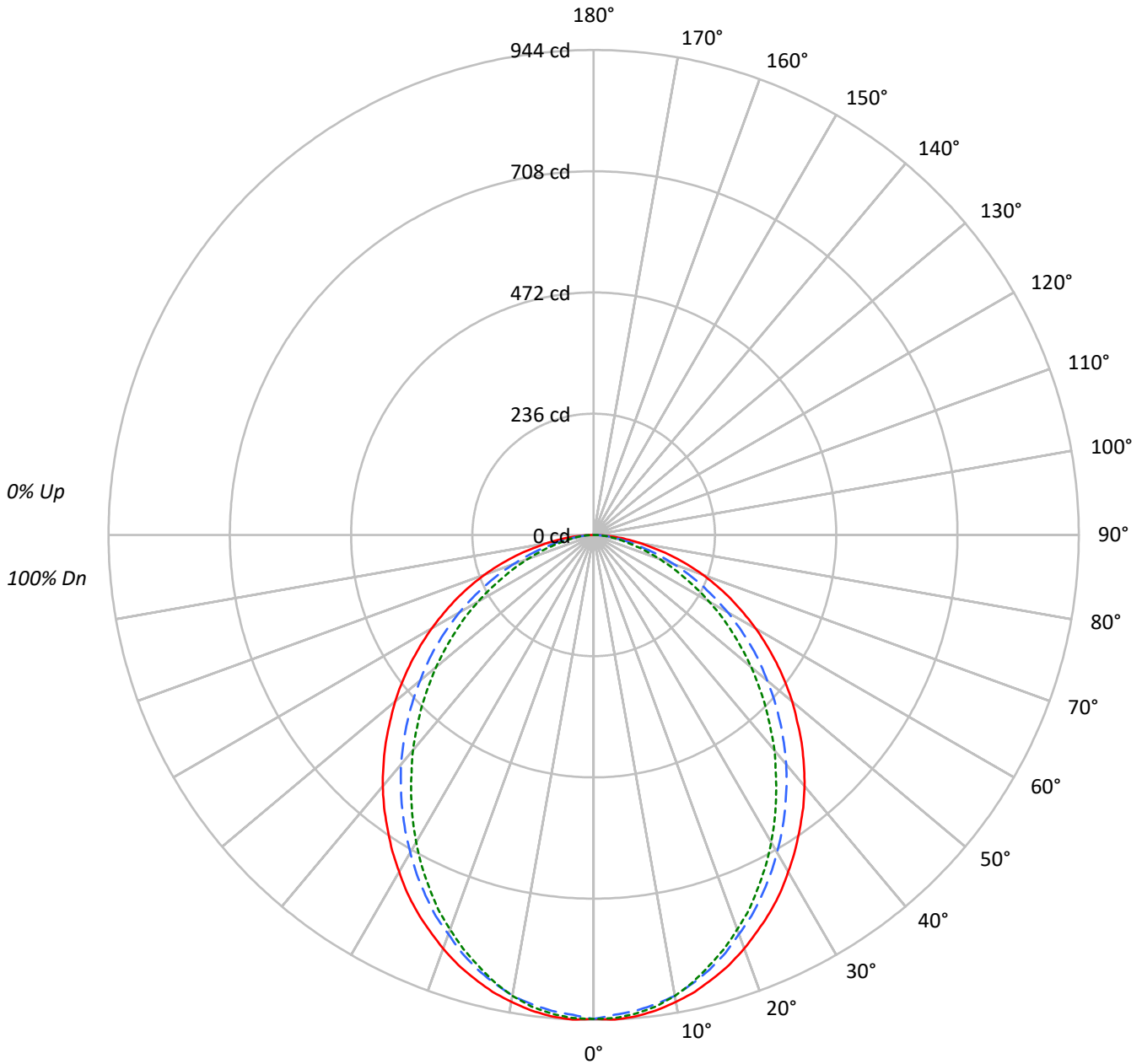
Lumens per Lamp: N/A  
Luminaire Lumens: 2226.0 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	11221	11221	11221
5°	11247	11119	11185
10°	11161	11015	11015
15°	11030	10791	10705
20°	10858	10480	10355
25°	10658	10174	9950
30°	10413	9815	9503
35°	10160	9446	9001
40°	9925	9061	8509
45°	9636	8629	7970
50°	9347	8162	7411
55°	9016	7716	6815
60°	8677	7170	6169
65°	8285	6541	5430
70°	7831	5746	4683
75°	7206	4845	3897
80°	6344	3813	3278
85°	5343	3116	2924



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.7	4.0
10°-20°	247.8	11.1
20°-30°	359.3	16.1
30°-40°	409.4	18.4
40°-50°	399.0	17.9
50°-60°	335.8	15.1
60°-70°	235.3	10.6
70°-80°	120.6	5.4
80°-90°	30.1	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°	695.8	31.3
0°-40°	1105.2	49.6
0°-60°	1840.0	82.7
0°-90°	2226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2226.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	941	938	930	937	936	89
15°	895	890	875	874	868	252
25°	811	800	774	765	757	373
35°	699	682	650	629	619	438
45°	572	552	512	484	473	441
55°	434	411	372	340	328	388
65°	294	270	232	203	193	291
75°	157	135	105	90	85	165
85°	39	26	23	22	21	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	942.2	942.2	942.2	942.2	942.2
2.5°	944.3	942.2	935.1	942.2	941.4
5°	940.8	938.0	930.1	937.1	935.6
7.5°	933.6	930.7	921.5	927.2	925.9
10°	922.9	920.8	910.8	913.0	910.8
12.5°	910.8	907.9	893.6	895.1	891.7
15°	894.6	890.2	875.2	874.5	868.2
17.5°	877.4	871.1	853.1	849.7	844.7
20°	856.7	849.7	826.9	823.3	817.0
22.5°	834.0	826.9	802.8	794.9	789.8
25°	811.1	800.5	774.2	764.9	757.2
27.5°	785.7	772.7	745.0	733.0	725.2
30°	757.2	743.7	713.7	697.5	691.0
32.5°	729.3	713.1	682.4	664.0	655.5
35°	698.8	681.8	649.7	629.1	619.1
37.5°	669.6	648.9	616.2	592.2	582.0
40°	638.4	617.0	582.8	555.7	547.3
42.5°	605.5	583.4	547.8	522.3	508.7
45°	572.1	551.6	512.3	483.9	473.2
47.5°	537.1	516.0	476.7	447.6	435.5
50°	504.5	481.0	440.5	410.7	400.0
52.5°	468.9	444.8	407.0	374.2	363.5
55°	434.2	411.3	371.6	339.5	328.2
57.5°	398.5	374.2	335.9	304.5	294.6
60°	364.3	339.5	301.0	269.7	259.0
62.5°	328.2	304.5	265.5	236.9	226.2
65°	294.0	269.7	232.1	203.4	192.7
67.5°	259.6	235.6	199.2	172.3	163.8
70°	224.9	200.6	165.0	143.0	134.5
72.5°	190.7	167.2	134.5	114.6	109.7
75°	156.6	135.2	105.3	89.8	84.7
77.5°	121.6	104.5	79.6	67.7	63.4
80°	92.5	75.5	55.6	49.1	47.8
82.5°	64.0	49.1	37.1	34.7	34.2
85°	39.1	26.3	22.8	22.0	21.4
87.5°	16.5	11.4	10.7	10.7	9.9
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)