

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: P888082

Luminaire Tested: **DPT5-4F029-127S27-A-XX-UDD**

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: P888082  
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: DPT5-4F029-127S27-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

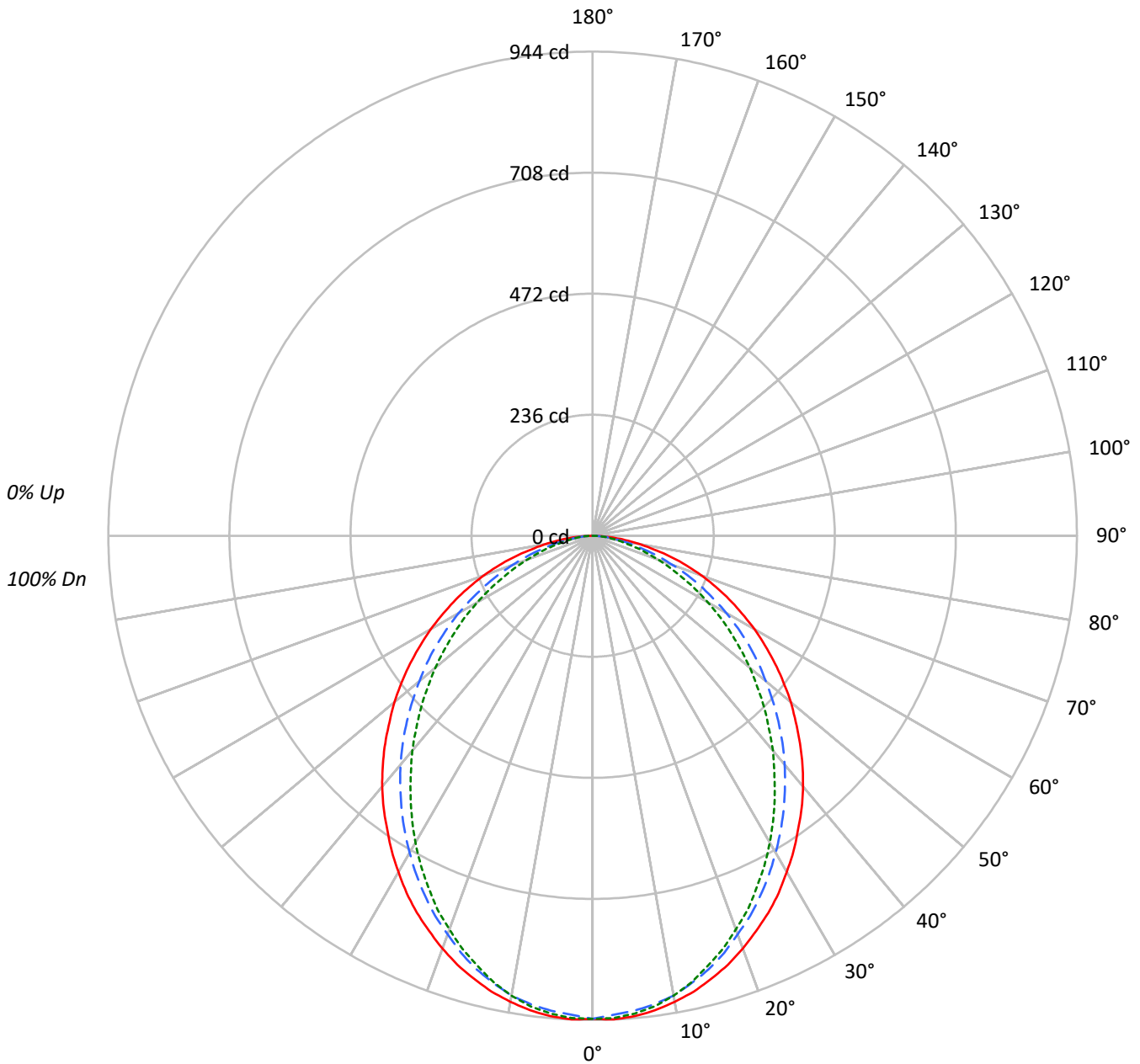
Lumens per Lamp: N/A  
Luminaire Lumens: 2225.0 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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				20				
RC	80				70				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			100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72			72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61			61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53			53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46			46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41			41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36			36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33			33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29			29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27			27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11216	11216	11216
5°	11241	11115	11180
10°	11156	11010	11010
15°	11025	10786	10700
20°	10853	10475	10350
25°	10655	10168	9945
30°	10408	9811	9499
35°	10155	9442	8997
40°	9920	9056	8504
45°	9631	8625	7967
50°	9344	8158	7408
55°	9011	7712	6811
60°	8675	7165	6167
65°	8279	6538	5428
70°	7828	5742	4680
75°	7201	4845	3897
80°	6344	3806	3278
85°	5343	3116	2924



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.6	4.0
10°-20°	247.7	11.1
20°-30°	359.2	16.1
30°-40°	409.2	18.4
40°-50°	398.8	17.9
50°-60°	335.7	15.1
60°-70°	235.2	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°	695.5	31.3
0°-40°	1104.7	49.6
0°-60°	1839.1	82.7
0°-90°	2225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	942	942	942	942	942	
5°	940	938	930	937	935	89
15°	894	890	875	874	868	252
25°	811	800	774	765	757	373
35°	698	682	649	629	619	437
45°	572	551	512	484	473	441
55°	434	411	371	339	328	388
65°	294	270	232	203	193	291
75°	156	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°	941.8	941.8	941.8	941.8	941.8
2.5°	943.9	941.8	934.7	941.8	941.0
5°	940.3	937.6	929.7	936.7	935.2
7.5°	933.2	930.3	921.1	926.8	925.4
10°	922.5	920.4	910.4	912.6	910.4
12.5°	910.4	907.5	893.2	894.7	891.3
15°	894.2	889.8	874.8	874.1	867.8
17.5°	877.0	870.7	852.7	849.3	844.3
20°	856.3	849.3	826.5	822.9	816.6
22.5°	833.6	826.5	802.5	794.6	789.4
25°	810.8	800.1	773.8	764.6	756.8
27.5°	785.3	772.4	744.7	732.7	724.9
30°	756.8	743.4	713.4	697.2	690.7
32.5°	729.0	712.7	682.1	663.7	655.2
35°	698.5	681.5	649.4	628.8	618.8
37.5°	669.3	648.6	615.9	591.9	581.7
40°	638.1	616.7	582.5	555.5	547.0
42.5°	605.2	583.2	547.6	522.1	508.5
45°	571.8	551.4	512.1	483.7	473.0
47.5°	536.9	515.8	476.4	447.4	435.3
50°	504.3	480.8	440.3	410.5	399.8
52.5°	468.7	444.6	406.8	374.1	363.4
55°	434.0	411.1	371.4	339.4	328.0
57.5°	398.3	374.1	335.8	304.4	294.5
60°	364.2	339.4	300.8	269.6	258.9
62.5°	328.0	304.4	265.3	236.8	226.1
65°	293.8	269.6	232.0	203.3	192.6
67.5°	259.5	235.5	199.1	172.2	163.7
70°	224.8	200.6	164.9	142.9	134.4
72.5°	190.7	167.2	134.4	114.5	109.6
75°	156.5	135.1	105.3	89.7	84.7
77.5°	121.5	104.5	79.6	67.7	63.3
80°	92.5	75.5	55.5	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	11.3	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)