

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: P888071

Luminaire Tested: **DPT5-4F029-109S27-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: P888071  
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: DPT5-4F029-109S27-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

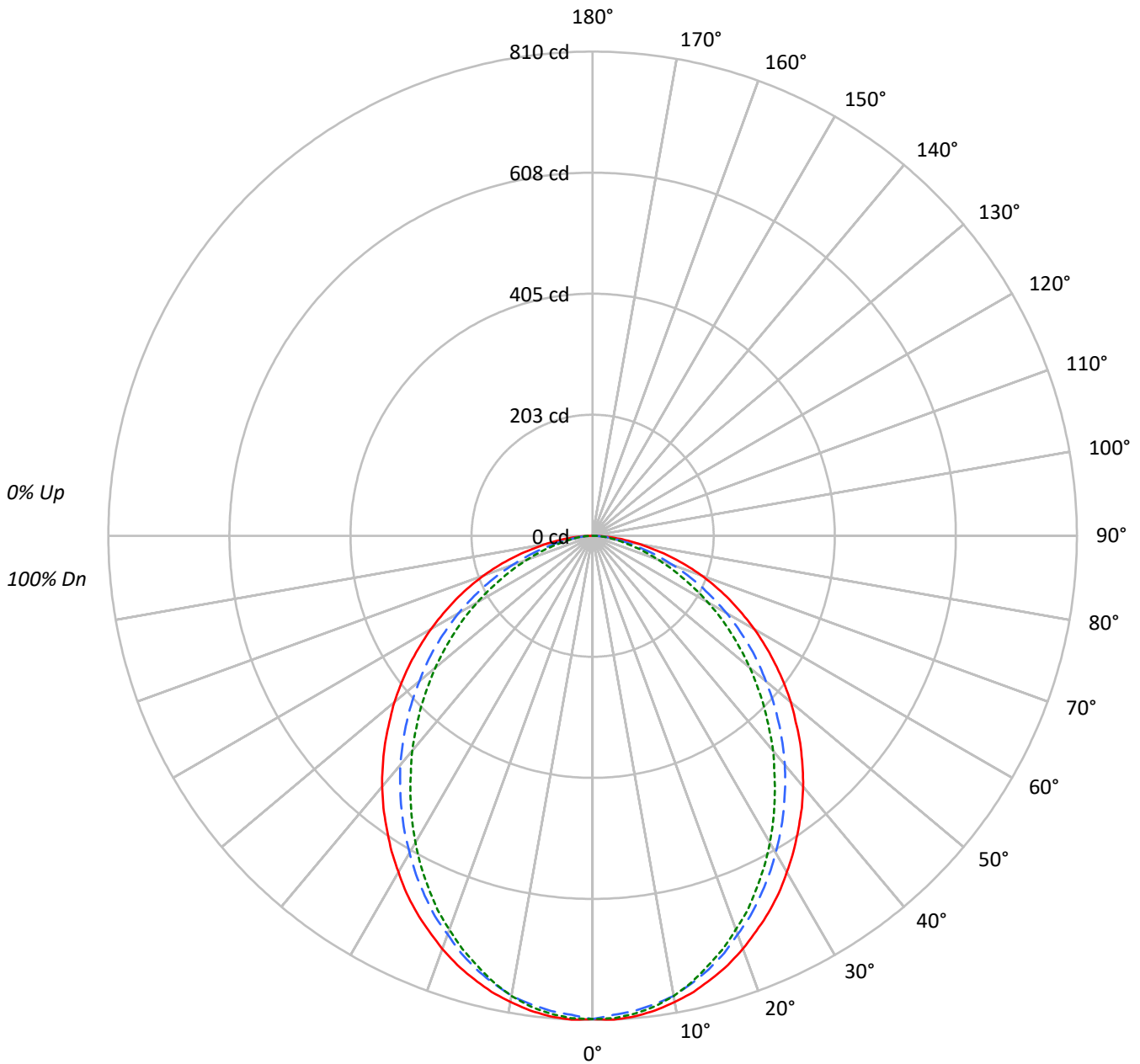
Lumens per Lamp: N/A  
Luminaire Lumens: 1910.0 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.6  
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°	9629	9629	9629
5°	9650	9540	9598
10°	9577	9451	9451
15°	9464	9258	9184
20°	9317	8992	8884
25°	9146	8729	8538
30°	8935	8422	8154
35°	8718	8105	7723
40°	8515	7775	7301
45°	8268	7404	6838
50°	8021	7004	6359
55°	7735	6619	5847
60°	7446	6150	5293
65°	7107	5611	4661
70°	6721	4931	4018
75°	6180	4160	3345
80°	5446	3271	2812
85°	4578	2678	2501



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	4.0
10°-20°	212.6	11.1
20°-30°	308.3	16.1
30°-40°	351.3	18.4
40°-50°	342.4	17.9
50°-60°	288.1	15.1
60°-70°	201.9	10.6
70°-80°	103.5	5.4
80°-90°	25.8	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°	597.0	31.3
0°-40°	948.3	49.6
0°-60°	1578.8	82.7
0°-90°	1910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1910.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	808	808	808	808	808	
5°	807	805	798	804	803	77
15°	768	764	751	750	745	216
25°	696	687	664	656	650	320
35°	600	585	558	540	531	375
45°	491	473	440	415	406	379
55°	372	353	319	291	282	333
65°	252	231	199	174	165	250
75°	134	116	90	77	73	142
85°	34	22	20	19	18	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	808.5	808.5	808.5	808.5	808.5
2.5°	810.3	808.5	802.3	808.5	807.8
5°	807.2	804.8	798.0	804.0	802.8
7.5°	801.1	798.6	790.7	795.6	794.4
10°	791.9	790.1	781.5	783.4	781.5
12.5°	781.5	779.0	766.8	768.0	765.1
15°	767.6	763.8	750.9	750.4	744.9
17.5°	752.9	747.4	732.0	729.1	724.8
20°	735.1	729.1	709.5	706.4	701.0
22.5°	715.6	709.5	688.9	682.1	677.6
25°	696.0	686.8	664.3	656.4	649.7
27.5°	674.1	663.0	639.3	628.9	622.3
30°	649.7	638.1	612.4	598.5	592.9
32.5°	625.8	611.8	585.6	569.7	562.5
35°	599.6	585.0	557.5	539.8	531.2
37.5°	574.6	556.8	528.7	508.1	499.4
40°	547.7	529.4	500.1	476.8	469.6
42.5°	519.5	500.6	470.0	448.2	436.5
45°	490.9	473.3	439.6	415.2	406.0
47.5°	460.9	442.7	409.0	384.1	373.7
50°	432.9	412.7	378.0	352.4	343.2
52.5°	402.3	381.7	349.2	321.1	311.9
55°	372.5	352.9	318.8	291.3	281.6
57.5°	341.9	321.1	288.3	261.3	252.8
60°	312.6	291.3	258.2	231.4	222.2
62.5°	281.6	261.3	227.8	203.3	194.1
65°	252.2	231.4	199.1	174.5	165.4
67.5°	222.8	202.2	170.9	147.8	140.6
70°	193.0	172.2	141.6	122.7	115.4
72.5°	163.7	143.5	115.4	98.3	94.1
75°	134.3	116.0	90.4	77.0	72.7
77.5°	104.3	89.7	68.3	58.1	54.4
80°	79.4	64.8	47.7	42.1	41.0
82.5°	54.9	42.1	31.8	29.8	29.3
85°	33.5	22.5	19.6	18.9	18.3
87.5°	14.2	9.7	9.2	9.2	8.5
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)