

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: P888118

Luminaire Tested: **DPT5-4F029-85S40-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: P888118  
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: DPT5-4F029-85540-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

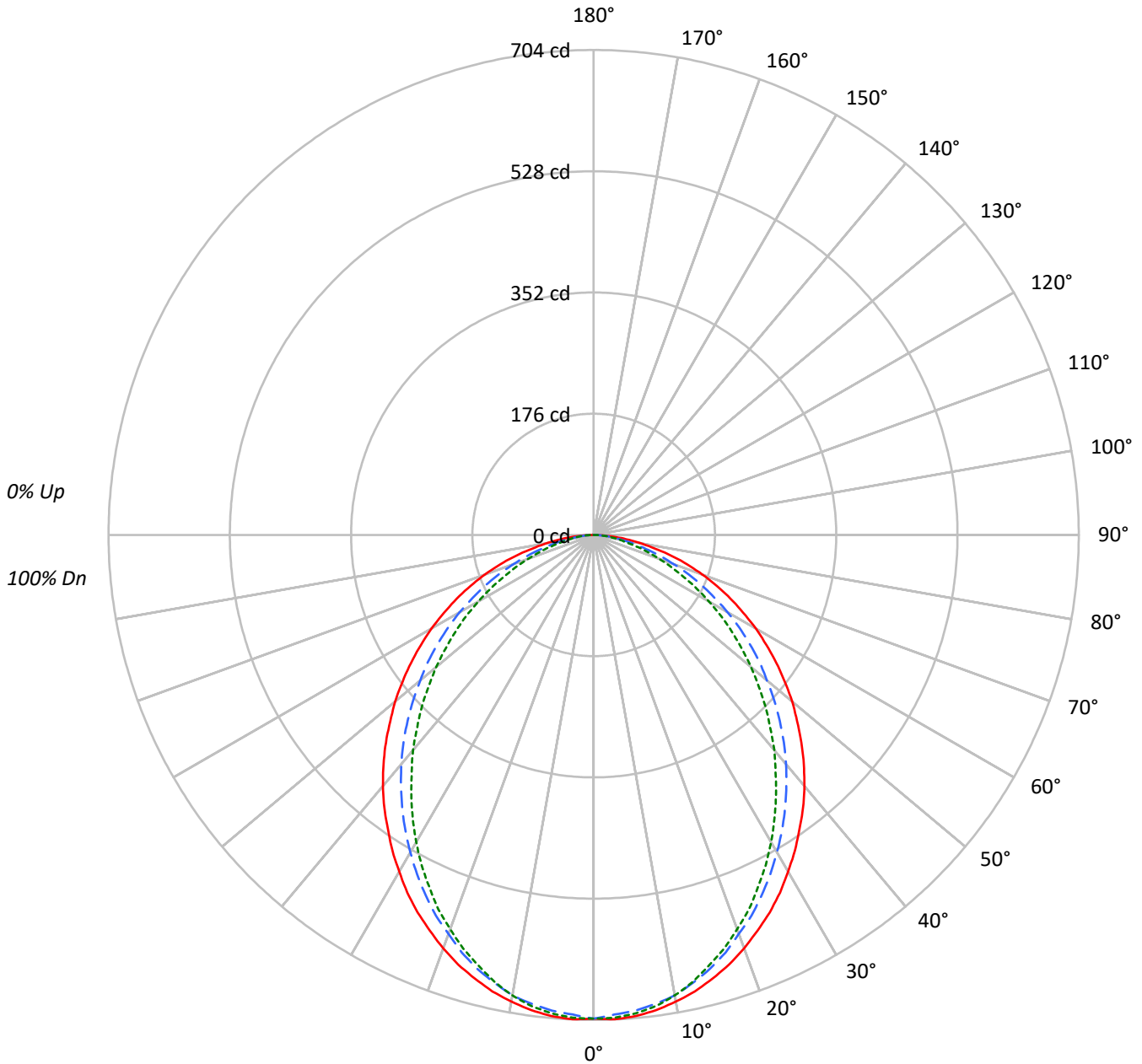
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1659.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 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): 16.1  
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°	8363	8363	8363
5°	8382	8287	8336
10°	8319	8209	8209
15°	8220	8041	7977
20°	8092	7810	7717
25°	7944	7582	7415
30°	7760	7315	7082
35°	7572	7040	6708
40°	7397	6752	6342
45°	7182	6431	5940
50°	6967	6083	5523
55°	6719	5749	5079
60°	6467	5343	4597
65°	6174	4872	4047
70°	5836	4283	3489
75°	5370	3612	2908
80°	4732	2839	2442
85°	3976	2323	2173



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.1	4.0
10°-20°	184.7	11.1
20°-30°	267.8	16.1
30°-40°	305.1	18.4
40°-50°	297.4	17.9
50°-60°	250.3	15.1
60°-70°	175.4	10.6
70°-80°	89.9	5.4
80°-90°	22.4	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°	518.6	31.3
0°-40°	823.6	49.6
0°-60°	1371.3	82.7
0°-90°	1659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1659.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	701	699	693	698	697	66
15°	667	664	652	652	647	188
25°	604	597	577	570	564	278
35°	521	508	484	469	461	326
45°	426	411	382	361	353	329
55°	324	306	277	253	245	289
65°	219	201	173	152	144	217
75°	117	101	78	67	63	123
85°	29	20	17	16	16	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	702.2	702.2	702.2	702.2	702.2
2.5°	703.8	702.2	696.9	702.2	701.6
5°	701.1	699.1	693.2	698.4	697.3
7.5°	695.8	693.7	686.8	691.0	690.0
10°	687.9	686.3	678.8	680.5	678.8
12.5°	678.8	676.6	666.0	667.1	664.5
15°	666.7	663.5	652.2	651.8	647.0
17.5°	653.9	649.2	635.8	633.3	629.5
20°	638.5	633.3	616.2	613.6	608.9
22.5°	621.6	616.2	598.3	592.4	588.6
25°	604.5	596.6	577.0	570.1	564.3
27.5°	585.5	575.9	555.2	546.3	540.5
30°	564.3	554.3	531.9	519.8	515.0
32.5°	543.5	531.4	508.6	494.8	488.5
35°	520.8	508.1	484.2	468.9	461.4
37.5°	499.1	483.6	459.2	441.3	433.7
40°	475.8	459.8	434.3	414.2	407.9
42.5°	451.3	434.8	408.3	389.3	379.1
45°	426.4	411.1	381.8	360.7	352.7
47.5°	400.3	384.6	355.2	333.6	324.5
50°	376.0	358.5	328.3	306.1	298.1
52.5°	349.4	331.5	303.3	278.9	270.9
55°	323.6	306.5	276.9	253.0	244.6
57.5°	297.0	278.9	250.4	227.0	219.6
60°	271.5	253.0	224.3	201.0	193.0
62.5°	244.6	227.0	197.8	176.6	168.6
65°	219.1	201.0	172.9	151.6	143.6
67.5°	193.5	175.6	148.5	128.4	122.1
70°	167.6	149.5	123.0	106.5	100.2
72.5°	142.2	124.6	100.2	85.4	81.8
75°	116.7	100.7	78.5	66.9	63.2
77.5°	90.6	77.9	59.3	50.5	47.2
80°	69.0	56.3	41.4	36.6	35.6
82.5°	47.7	36.6	27.6	25.9	25.5
85°	29.1	19.6	17.0	16.4	15.9
87.5°	12.3	8.5	8.0	8.0	7.4
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)