

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: P888072

Luminaire Tested: **DPT5-4F029-109S30-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: P888072  
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: DPT5-4F029-109S30-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

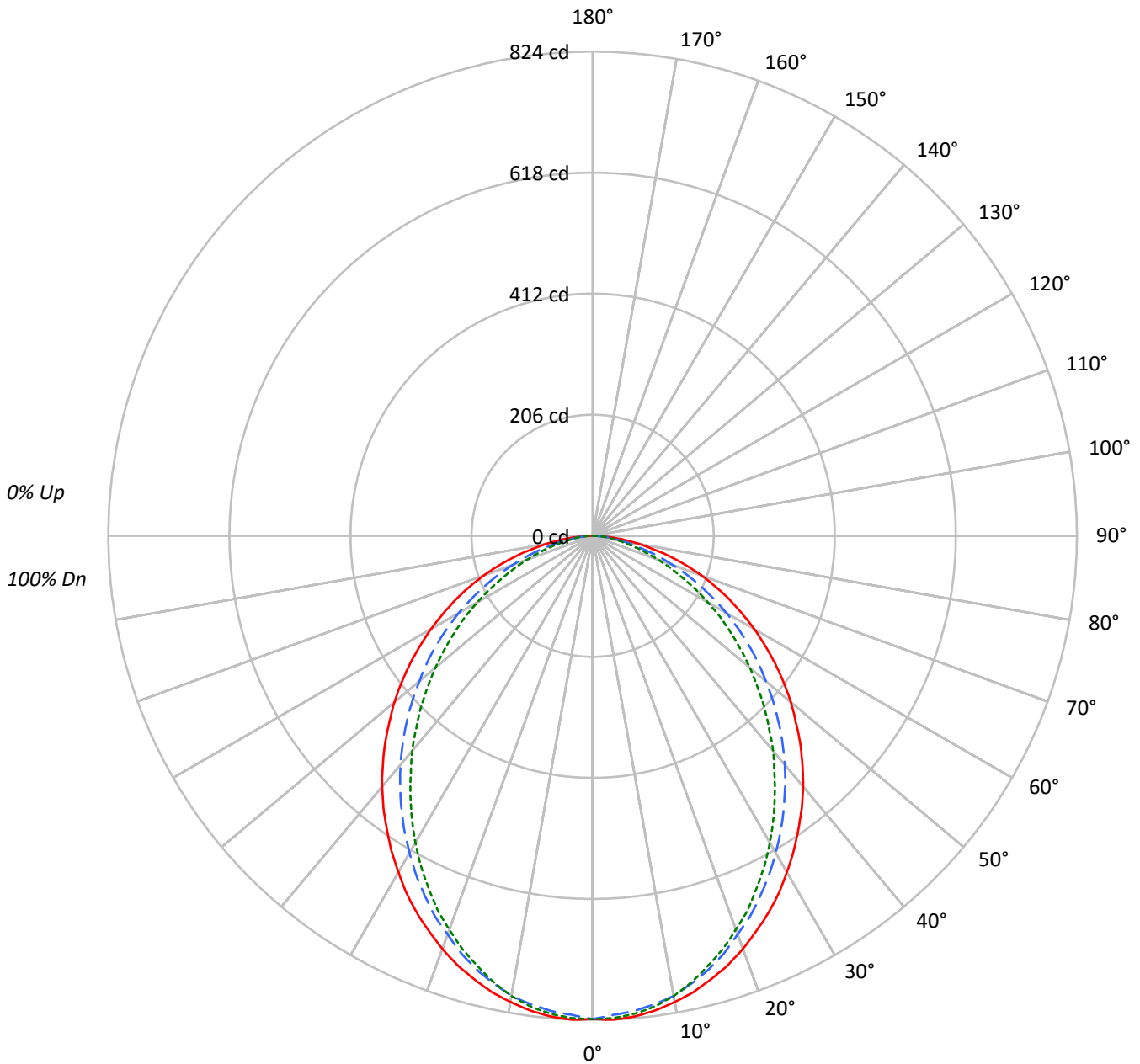
Lumens per Lamp: N/A  
Luminaire Lumens: 1943.0 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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°	9794	9794	9794
5°	9818	9705	9764
10°	9742	9614	9614
15°	9627	9419	9343
20°	9478	9147	9038
25°	9304	8881	8685
30°	9089	8568	8295
35°	8869	8245	7857
40°	8663	7909	7427
45°	8411	7532	6958
50°	8160	7124	6468
55°	7869	6734	5947
60°	7575	6257	5386
65°	7231	5709	4740
70°	6835	5014	4088
75°	6286	4229	3405
80°	5542	3326	2860
85°	4660	2719	2555



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.4	4.0
10°-20°	216.3	11.1
20°-30°	313.6	16.1
30°-40°	357.3	18.4
40°-50°	348.3	17.9
50°-60°	293.1	15.1
60°-70°	205.4	10.6
70°-80°	105.3	5.4
80°-90°	26.3	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°	607.3	31.3
0°-40°	964.7	49.6
0°-60°	1606.0	82.7
0°-90°	1943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1943.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	821	819	812	818	817	78
15°	781	777	764	763	758	220
25°	708	699	676	668	661	326
35°	610	595	567	549	540	382
45°	499	482	447	422	413	385
55°	379	359	324	296	286	339
65°	257	235	203	178	168	254
75°	137	118	92	78	74	144
85°	34	23	20	19	19	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	822.4	822.4	822.4	822.4	822.4
2.5°	824.3	822.4	816.2	822.4	821.7
5°	821.2	818.7	811.8	817.9	816.7
7.5°	814.9	812.4	804.3	809.3	808.1
10°	805.6	803.8	795.0	797.0	795.0
12.5°	795.0	792.5	780.0	781.3	778.3
15°	780.8	777.0	763.9	763.3	757.8
17.5°	765.9	760.3	744.7	741.7	737.3
20°	747.8	741.7	721.7	718.6	713.1
22.5°	728.0	721.7	700.8	693.8	689.4
25°	708.0	698.7	675.8	667.7	660.9
27.5°	685.8	674.5	650.3	639.8	633.0
30°	660.9	649.1	623.0	608.8	603.2
32.5°	636.6	622.4	595.7	579.6	572.2
35°	610.0	595.1	567.1	549.1	540.4
37.5°	584.5	566.4	537.8	516.9	508.0
40°	557.2	538.5	508.7	485.1	477.7
42.5°	528.5	509.3	478.2	455.9	444.1
45°	499.4	481.5	447.2	422.4	413.1
47.5°	468.8	450.4	416.1	390.7	380.1
50°	440.4	419.9	384.5	358.4	349.1
52.5°	409.3	388.3	355.2	326.6	317.3
55°	379.0	359.0	324.3	296.3	286.4
57.5°	347.8	326.6	293.2	265.8	257.2
60°	318.0	296.3	262.7	235.4	226.1
62.5°	286.4	265.8	231.7	206.8	197.5
65°	256.6	235.4	202.6	177.6	168.2
67.5°	226.6	205.7	173.9	150.4	143.0
70°	196.3	175.1	144.0	124.8	117.4
72.5°	166.5	146.0	117.4	100.0	95.7
75°	136.6	118.0	91.9	78.3	74.0
77.5°	106.1	91.3	69.5	59.1	55.3
80°	80.8	65.9	48.5	42.9	41.7
82.5°	55.9	42.9	32.4	30.3	29.8
85°	34.1	22.9	19.9	19.2	18.7
87.5°	14.4	9.9	9.3	9.3	8.6
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)