

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: P888073

Luminaire Tested: **DPT5-4F029-109S35-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: P888073  
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: DPT5-4F029-109S35-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

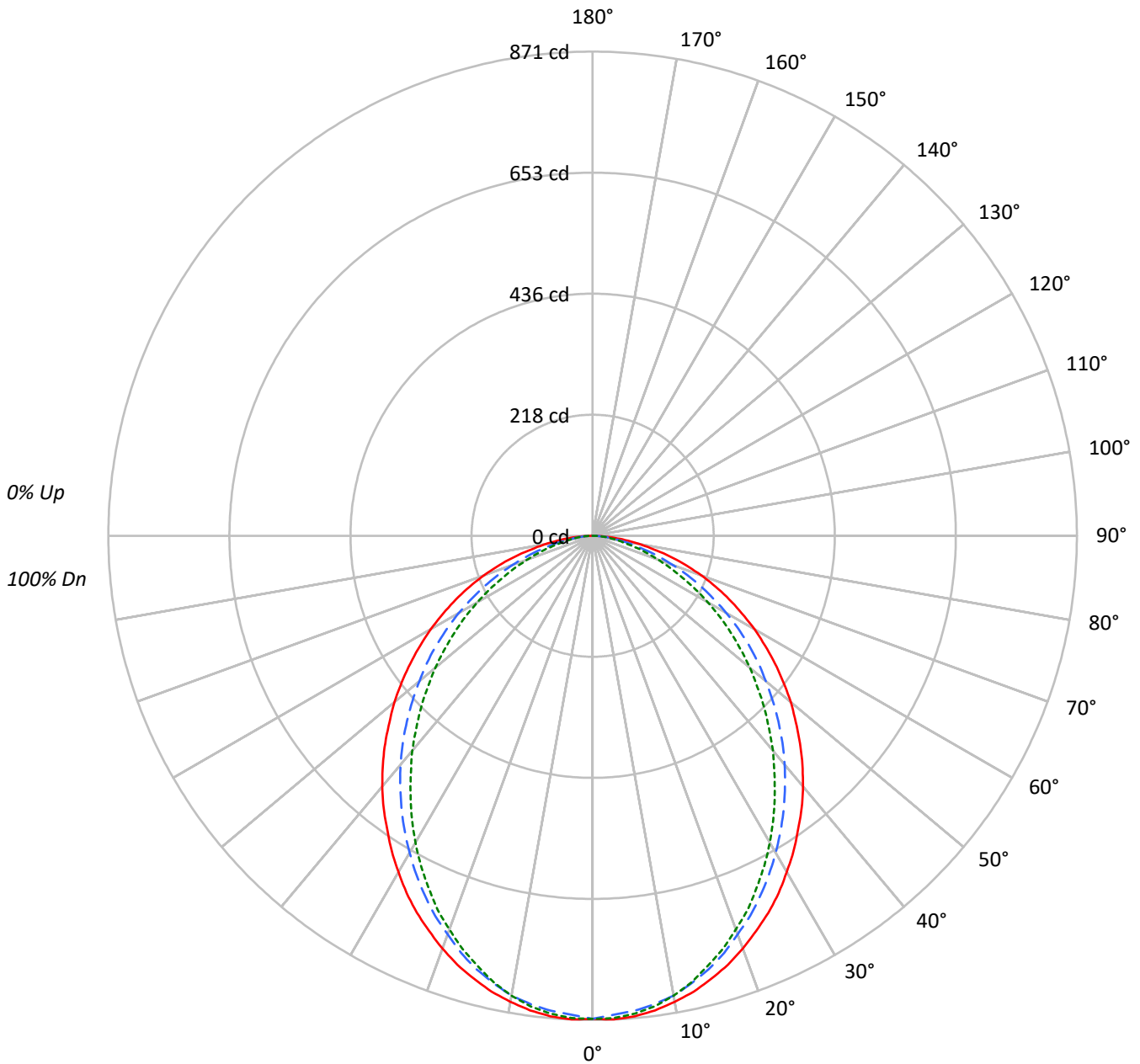
Lumens per Lamp: N/A  
Luminaire Lumens: 2053.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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°	10349	10349	10349
5°	10373	10255	10316
10°	10294	10158	10158
15°	10172	9951	9872
20°	10014	9665	9550
25°	9831	9383	9176
30°	9603	9053	8764
35°	9370	8712	8302
40°	9152	8356	7847
45°	8886	7958	7350
50°	8621	7528	6835
55°	8314	7116	6285
60°	8003	6612	5690
65°	7640	6031	5008
70°	7222	5300	4321
75°	6645	4473	3598
80°	5850	3518	3025
85°	4919	2883	2692



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	4.0
10°-20°	228.5	11.1
20°-30°	331.4	16.1
30°-40°	377.6	18.4
40°-50°	368.0	17.9
50°-60°	309.7	15.1
60°-70°	217.0	10.6
70°-80°	111.3	5.4
80°-90°	27.8	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°	641.7	31.3
0°-40°	1019.3	49.6
0°-60°	1696.9	82.7
0°-90°	2053.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2053.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	869	869	869	869	869	
5°	868	865	858	864	863	82
15°	825	821	807	806	801	233
25°	748	738	714	706	698	344
35°	644	629	599	580	571	404
45°	528	509	472	446	436	407
55°	400	379	343	313	303	358
65°	271	249	214	188	178	268
75°	144	125	97	83	78	153
85°	36	24	21	20	20	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	869.0	869.0	869.0	869.0	869.0
2.5°	870.9	869.0	862.4	869.0	868.3
5°	867.7	865.1	857.8	864.2	862.9
7.5°	861.1	858.4	849.9	855.1	853.9
10°	851.2	849.3	840.0	842.1	840.0
12.5°	840.0	837.3	824.2	825.5	822.4
15°	825.0	821.0	807.1	806.5	800.7
17.5°	809.2	803.4	786.8	783.7	779.0
20°	790.1	783.7	762.6	759.3	753.5
22.5°	769.2	762.6	740.4	733.1	728.4
25°	748.1	738.2	714.0	705.5	698.3
27.5°	724.6	712.7	687.1	676.0	668.8
30°	698.3	685.9	658.3	643.3	637.3
32.5°	672.6	657.6	629.4	612.4	604.6
35°	644.5	628.8	599.2	580.2	571.0
37.5°	617.6	598.5	568.3	546.1	536.8
40°	588.7	569.0	537.5	512.5	504.7
42.5°	558.4	538.1	505.2	481.7	469.2
45°	527.6	508.8	472.5	446.3	436.4
47.5°	495.4	475.9	439.6	412.8	401.6
50°	465.3	443.6	406.3	378.7	368.9
52.5°	432.4	410.3	375.3	345.1	335.3
55°	400.4	379.3	342.7	313.1	302.7
57.5°	367.5	345.1	309.8	280.9	271.7
60°	336.0	313.1	277.6	248.7	238.9
62.5°	302.7	280.9	244.8	218.5	208.7
65°	271.1	248.7	214.0	187.6	177.7
67.5°	239.5	217.3	183.7	158.9	151.1
70°	207.4	185.0	152.2	131.8	124.1
72.5°	175.9	154.2	124.1	105.7	101.2
75°	144.4	124.7	97.2	82.8	78.2
77.5°	112.1	96.4	73.4	62.5	58.4
80°	85.3	69.6	51.3	45.3	44.1
82.5°	59.0	45.3	34.2	32.0	31.5
85°	36.0	24.2	21.1	20.3	19.7
87.5°	15.2	10.5	9.9	9.9	9.1
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)