

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: P888107

Luminaire Tested: **DPT5-4F029-61S40-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: P888107  
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: DPT5-4F029-61S40-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

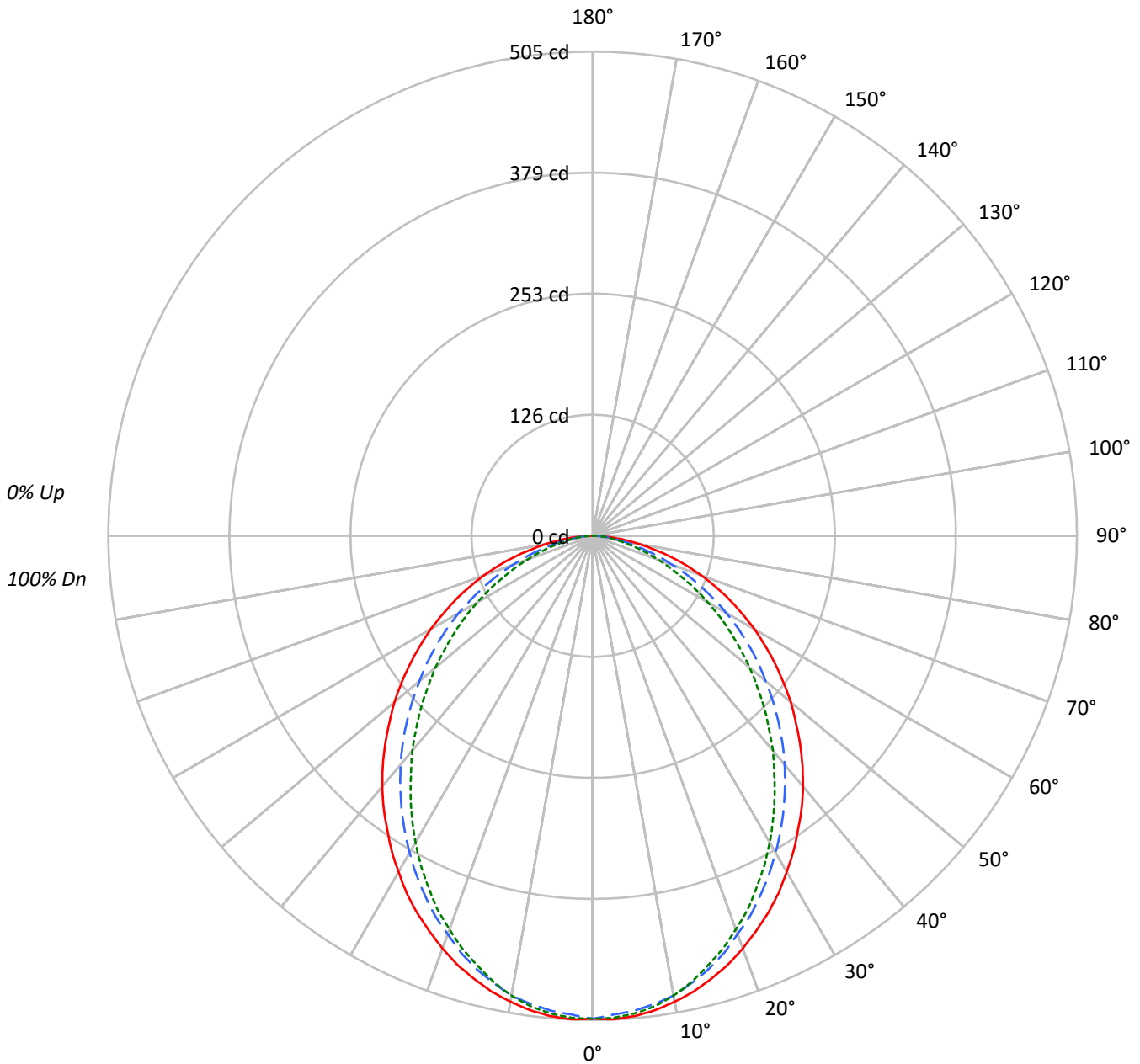
Lumens per Lamp: N/A  
Luminaire Lumens: 1190.0 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.5  
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

TEST NUMBER: P888107

CATALOG NUMBER: DPT5-4F029-61S40-A-XX-UDD

### Luminous Intensity Polar Plot





TEST NUMBER: P888107

CATALOG NUMBER: DPT5-4F029-61S40-A-XX-UDD

**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°	5999	5999	5999
5°	6012	5944	5980
10°	5967	5888	5888
15°	5896	5769	5722
20°	5805	5602	5535
25°	5698	5439	5319
30°	5567	5248	5080
35°	5432	5049	4812
40°	5306	4844	4549
45°	5151	4613	4261
50°	4997	4363	3961
55°	4819	4124	3642
60°	4640	3833	3299
65°	4430	3497	2903
70°	4186	3071	2504
75°	3851	2591	2084
80°	3395	2037	1749
85°	2856	1667	1558



TEST NUMBER: P888107

CATALOG NUMBER: DPT5-4F029-61S40-A-XX-UDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.4	4.0
10°-20°	132.5	11.1
20°-30°	192.1	16.1
30°-40°	218.8	18.4
40°-50°	213.3	17.9
50°-60°	179.5	15.1
60°-70°	125.8	10.6
70°-80°	64.5	5.4
80°-90°	16.1	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°	372.0	31.3
0°-40°	590.8	49.6
0°-60°	983.6	82.7
0°-90°	1190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1190.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	504	504	504	504	504	
5°	503	501	497	501	500	48
15°	478	476	468	468	464	135
25°	434	428	414	409	405	200
35°	374	364	347	336	331	234
45°	306	295	274	259	253	236
55°	232	220	199	182	175	208
65°	157	144	124	109	103	156
75°	84	72	56	48	45	88
85°	21	14	12	12	11	24
90°	0	0	0	0	0	



TEST NUMBER: P888107

CATALOG NUMBER: DPT5-4F029-61S40-A-XX-UDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	503.7	503.7	503.7	503.7	503.7
2.5°	504.8	503.7	499.9	503.7	503.3
5°	502.9	501.4	497.2	501.0	500.2
7.5°	499.1	497.6	492.6	495.7	495.0
10°	493.4	492.3	486.9	488.1	486.9
12.5°	486.9	485.4	477.7	478.5	476.7
15°	478.2	475.9	467.9	467.5	464.1
17.5°	469.1	465.7	456.1	454.2	451.6
20°	458.0	454.2	442.0	440.1	436.7
22.5°	445.8	442.0	429.2	425.0	422.2
25°	433.6	427.9	413.9	408.9	404.8
27.5°	420.0	413.1	398.3	391.9	387.7
30°	404.8	397.6	381.6	372.9	369.4
32.5°	389.9	381.2	364.8	354.9	350.4
35°	373.6	364.5	347.3	336.3	331.0
37.5°	358.0	346.9	329.4	316.6	311.1
40°	341.3	329.8	311.6	297.1	292.6
42.5°	323.7	311.9	292.9	279.2	272.0
45°	305.8	294.9	273.9	258.7	253.0
47.5°	287.1	275.8	254.8	239.3	232.8
50°	269.7	257.1	235.5	219.5	213.8
52.5°	250.7	237.8	217.6	200.1	194.3
55°	232.1	219.9	198.6	181.5	175.4
57.5°	213.0	200.1	179.6	162.8	157.5
60°	194.8	181.5	160.9	144.2	138.5
62.5°	175.4	162.8	141.9	126.7	121.0
65°	157.2	144.2	124.1	108.7	103.0
67.5°	138.8	126.0	106.5	92.1	87.6
70°	120.2	107.3	88.2	76.4	71.9
72.5°	102.0	89.4	71.9	61.3	58.6
75°	83.7	72.3	56.3	48.0	45.3
77.5°	65.0	55.9	42.6	36.2	33.9
80°	49.5	40.4	29.7	26.3	25.5
82.5°	34.2	26.3	19.8	18.6	18.3
85°	20.9	14.0	12.2	11.8	11.4
87.5°	8.8	6.1	5.7	5.7	5.3
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)