

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: P888111

Luminaire Tested: **DPT5-4F029-61V60-A-XX-UDD\_4000K**

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: P888111  
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: DPT5-4F029-61V60-A-XX-UDD\_4000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

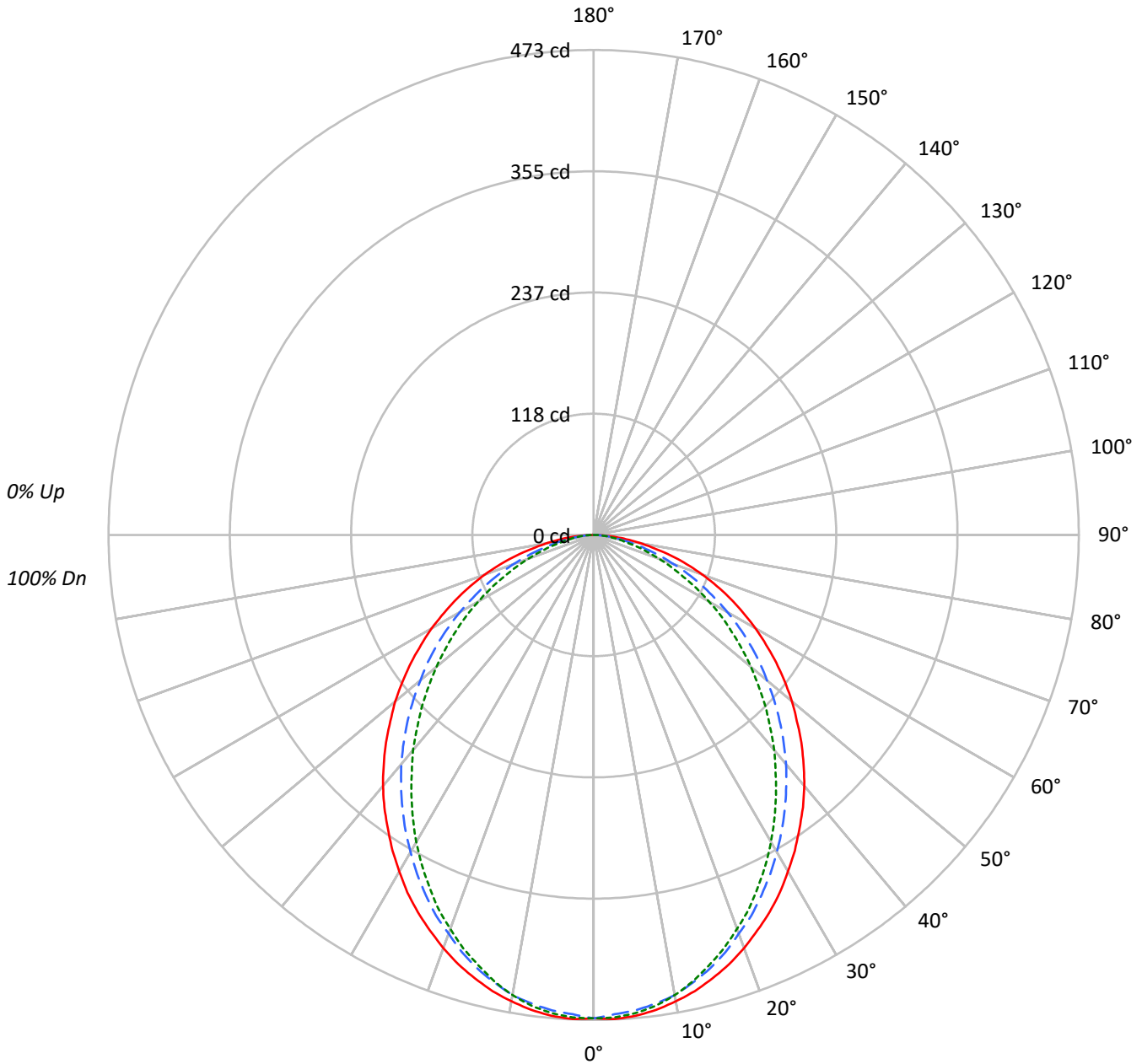
Lumens per Lamp: N/A  
Luminaire Lumens: 1114.0 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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

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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°	5615	5615	5615
5°	5628	5565	5597
10°	5586	5512	5512
15°	5520	5400	5357
20°	5433	5244	5181
25°	5334	5091	4979
30°	5211	4912	4755
35°	5084	4727	4504
40°	4967	4535	4258
45°	4822	4318	3988
50°	4678	4084	3709
55°	4512	3862	3409
60°	4342	3587	3087
65°	4145	3272	2717
70°	3921	2876	2343
75°	3603	2425	1951
80°	3175	1907	1639
85°	2678	1558	1462



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.4	4.0
10°-20°	124.0	11.1
20°-30°	179.8	16.1
30°-40°	204.9	18.4
40°-50°	199.7	17.9
50°-60°	168.0	15.1
60°-70°	117.8	10.6
70°-80°	60.4	5.4
80°-90°	15.1	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°	348.2	31.3
0°-40°	553.1	49.6
0°-60°	920.8	82.7
0°-90°	1114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1114.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	472	472	472	472	472	
5°	471	469	466	469	468	45
15°	448	446	438	438	434	126
25°	406	401	387	383	379	187
35°	350	341	325	315	310	219
45°	286	276	256	242	237	221
55°	217	206	186	170	164	194
65°	147	135	116	102	96	146
75°	78	68	53	45	42	83
85°	20	13	11	11	11	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	471.5	471.5	471.5	471.5	471.5
2.5°	472.6	471.5	468.0	471.5	471.1
5°	470.8	469.4	465.5	469.0	468.2
7.5°	467.2	465.8	461.2	464.0	463.3
10°	461.9	460.8	455.8	456.9	455.8
12.5°	455.8	454.4	447.2	448.0	446.2
15°	447.7	445.5	438.0	437.6	434.5
17.5°	439.1	435.9	426.9	425.2	422.7
20°	428.7	425.2	413.8	412.0	408.8
22.5°	417.4	413.8	401.8	397.8	395.2
25°	405.9	400.6	387.4	382.8	378.9
27.5°	393.2	386.7	372.8	366.8	362.9
30°	378.9	372.2	357.2	349.1	345.8
32.5°	365.0	356.9	341.5	332.3	328.1
35°	349.7	341.2	325.1	314.8	309.8
37.5°	335.1	324.7	308.4	296.3	291.3
40°	319.5	308.8	291.7	278.1	273.9
42.5°	303.0	292.0	274.1	261.4	254.6
45°	286.3	276.1	256.4	242.2	236.8
47.5°	268.8	258.2	238.5	224.0	217.9
50°	252.5	240.7	220.4	205.5	200.2
52.5°	234.6	222.6	203.7	187.3	181.9
55°	217.3	205.8	186.0	169.9	164.2
57.5°	199.4	187.3	168.1	152.4	147.4
60°	182.3	169.9	150.6	135.0	129.6
62.5°	164.2	152.4	132.8	118.6	113.2
65°	147.1	135.0	116.1	101.8	96.4
67.5°	129.9	117.9	99.7	86.2	82.0
70°	112.6	100.4	82.6	71.5	67.3
72.5°	95.5	83.7	67.3	57.3	54.9
75°	78.3	67.6	52.7	44.9	42.4
77.5°	60.8	52.3	39.8	33.9	31.7
80°	46.3	37.8	27.8	24.6	23.9
82.5°	32.0	24.6	18.6	17.4	17.1
85°	19.6	13.1	11.4	11.0	10.7
87.5°	8.3	5.7	5.4	5.4	5.0
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)