

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: P888113

Luminaire Tested: **DPT5-4F029-61V60-A-XX-UDD\_5000K**

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: P888113  
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\_5000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

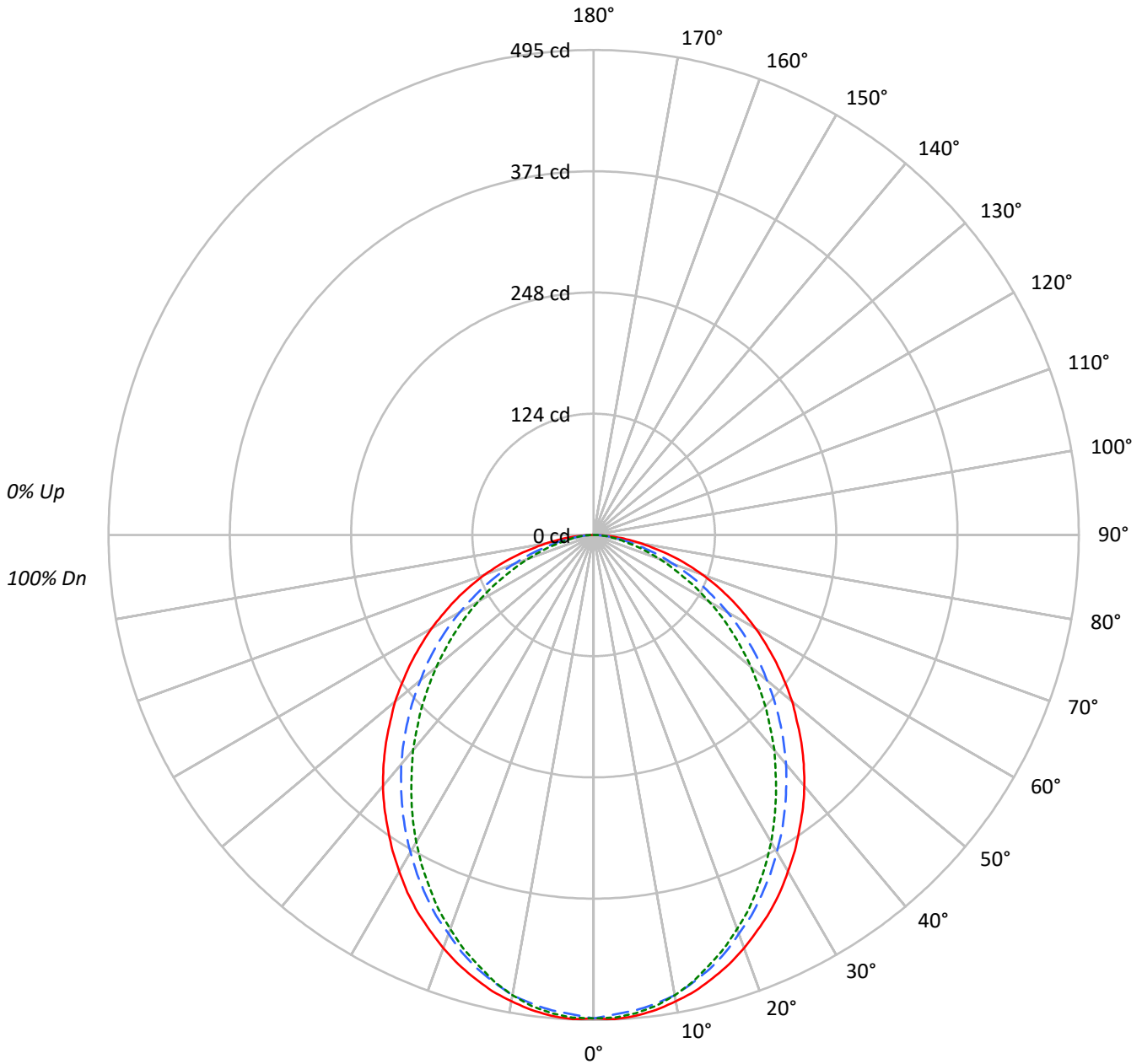
Lumens per Lamp: N/A  
Luminaire Lumens: 1166.0 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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°	5877	5877	5877
5°	5891	5825	5859
10°	5846	5770	5770
15°	5778	5652	5608
20°	5687	5489	5423
25°	5584	5329	5212
30°	5454	5142	4978
35°	5321	4948	4715
40°	5199	4746	4457
45°	5048	4519	4175
50°	4897	4274	3882
55°	4722	4041	3569
60°	4545	3754	3232
65°	4340	3427	2843
70°	4102	3009	2455
75°	3773	2540	2043
80°	3326	1996	1715
85°	2801	1640	1530



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.4	4.0
10°-20°	129.8	11.1
20°-30°	188.2	16.1
30°-40°	214.4	18.4
40°-50°	209.0	17.9
50°-60°	175.9	15.1
60°-70°	123.2	10.6
70°-80°	63.2	5.4
80°-90°	15.8	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°	364.5	31.3
0°-40°	578.9	49.6
0°-60°	963.8	82.7
0°-90°	1166.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1166.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	493	491	487	491	490	47
15°	469	466	458	458	455	132
25°	425	419	406	401	397	196
35°	366	357	340	330	324	229
45°	300	289	268	254	248	231
55°	227	216	195	178	172	203
65°	154	141	122	106	101	152
75°	82	71	55	47	44	87
85°	20	14	12	12	11	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	493.5	493.5	493.5	493.5	493.5
2.5°	494.7	493.5	489.8	493.5	493.1
5°	492.8	491.3	487.2	490.8	490.1
7.5°	489.0	487.5	482.7	485.7	485.0
10°	483.4	482.3	477.1	478.3	477.1
12.5°	477.1	475.6	468.1	468.9	467.1
15°	468.6	466.3	458.4	458.1	454.8
17.5°	459.6	456.3	446.9	445.1	442.4
20°	448.7	445.1	433.1	431.2	427.9
22.5°	436.8	433.1	420.5	416.4	413.7
25°	424.9	419.3	405.5	400.7	396.6
27.5°	411.5	404.8	390.2	384.0	379.9
30°	396.6	389.6	373.9	365.4	362.0
32.5°	382.0	373.5	357.5	347.8	343.4
35°	366.0	357.1	340.3	329.5	324.3
37.5°	350.8	339.9	322.8	310.2	304.9
40°	334.4	323.2	305.3	291.1	286.7
42.5°	317.2	305.6	286.9	273.6	266.5
45°	299.7	288.9	268.3	253.5	247.9
47.5°	281.3	270.3	249.7	234.5	228.1
50°	264.3	252.0	230.7	215.1	209.5
52.5°	245.6	233.0	213.2	196.0	190.4
55°	227.4	215.5	194.6	177.8	171.9
57.5°	208.7	196.0	176.0	159.5	154.3
60°	190.8	177.8	157.6	141.3	135.7
62.5°	171.9	159.5	139.0	124.1	118.5
65°	154.0	141.3	121.6	106.5	100.9
67.5°	136.0	123.4	104.3	90.2	85.8
70°	117.8	105.1	86.4	74.9	70.5
72.5°	99.9	87.6	70.5	60.0	57.5
75°	82.0	70.8	55.2	47.0	44.4
77.5°	63.7	54.8	41.7	35.5	33.2
80°	48.5	39.5	29.1	25.7	25.0
82.5°	33.5	25.7	19.4	18.2	17.9
85°	20.5	13.8	12.0	11.5	11.2
87.5°	8.6	5.9	5.6	5.6	5.2
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)