

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: P888106

Luminaire Tested: **DPT5-4F029-61S35-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: P888106  
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: DPT5-4F029-61S35-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

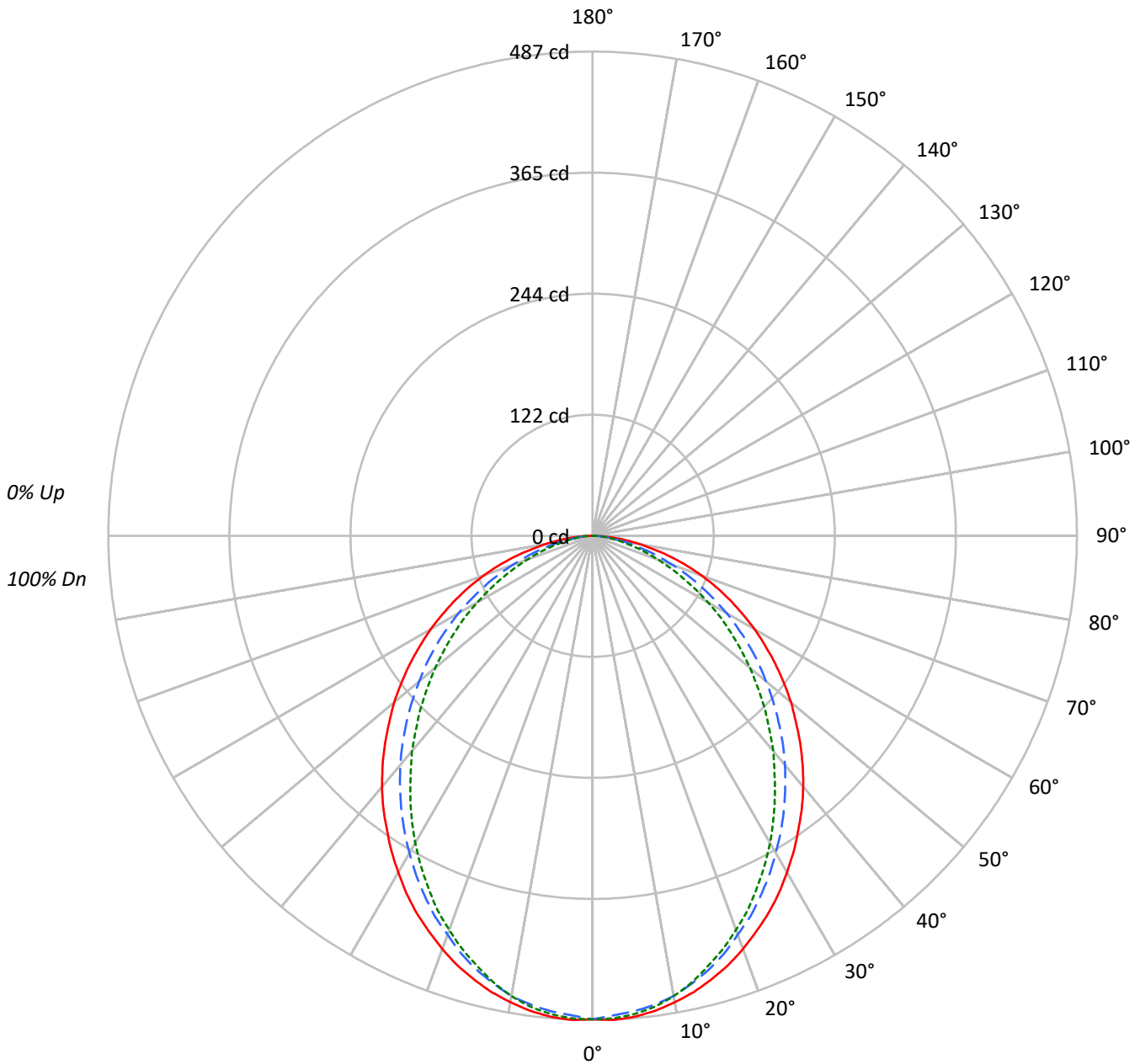
Lumens per Lamp: N/A  
Luminaire Lumens: 1149.0 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P888106

CATALOG NUMBER: DPT5-4F029-61S35-A-XX-UDD

### 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°	5792	5792	5792
5°	5805	5740	5773
10°	5761	5685	5685
15°	5694	5569	5525
20°	5604	5409	5345
25°	5502	5251	5135
30°	5374	5066	4905
35°	5244	4876	4647
40°	5123	4677	4392
45°	4974	4453	4115
50°	4825	4213	3824
55°	4653	3982	3517
60°	4480	3699	3185
65°	4275	3376	2804
70°	4043	2967	2417
75°	3718	2503	2011
80°	3278	1968	1694
85°	2760	1612	1503



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.8	4.0
10°-20°	127.9	11.1
20°-30°	185.5	16.1
30°-40°	211.3	18.4
40°-50°	205.9	17.9
50°-60°	173.3	15.1
60°-70°	121.5	10.6
70°-80°	62.3	5.4
80°-90°	15.5	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°	359.2	31.3
0°-40°	570.5	49.6
0°-60°	949.7	82.7
0°-90°	1149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1149.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	486	486	486	486	486	
5°	486	484	480	484	483	46
15°	462	460	452	451	448	130
25°	419	413	400	395	391	193
35°	361	352	335	325	320	226
45°	295	285	264	250	244	228
55°	224	212	192	175	169	200
65°	152	139	120	105	100	150
75°	81	70	54	46	44	85
85°	20	14	12	11	11	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	486.3	486.3	486.3	486.3	486.3
2.5°	487.4	486.3	482.7	486.3	485.9
5°	485.6	484.2	480.1	483.7	482.9
7.5°	481.9	480.4	475.7	478.6	477.9
10°	476.4	475.3	470.1	471.3	470.1
12.5°	470.1	468.6	461.3	462.0	460.3
15°	461.8	459.5	451.7	451.4	448.1
17.5°	452.9	449.6	440.4	438.6	436.0
20°	442.2	438.6	426.8	425.0	421.7
22.5°	430.5	426.8	414.4	410.3	407.7
25°	418.7	413.2	399.6	394.8	390.8
27.5°	405.5	398.9	384.6	378.4	374.3
30°	390.8	383.9	368.4	360.0	356.7
32.5°	376.4	368.1	352.3	342.7	338.4
35°	360.7	351.9	335.4	324.7	319.6
37.5°	345.6	335.0	318.1	305.7	300.4
40°	329.5	318.5	300.8	286.8	282.5
42.5°	312.5	301.2	282.8	269.6	262.6
45°	295.3	284.7	264.4	249.8	244.3
47.5°	277.2	266.3	246.0	231.0	224.8
50°	260.4	248.3	227.4	212.0	206.4
52.5°	242.0	229.6	210.1	193.2	187.6
55°	224.1	212.3	191.8	175.2	169.4
57.5°	205.7	193.2	173.4	157.2	152.1
60°	188.1	175.2	155.3	139.2	133.7
62.5°	169.4	157.2	137.0	122.3	116.8
65°	151.7	139.2	119.8	105.0	99.5
67.5°	134.0	121.6	102.8	88.9	84.6
70°	116.1	103.6	85.2	73.8	69.4
72.5°	98.5	86.3	69.4	59.1	56.6
75°	80.8	69.8	54.4	46.3	43.7
77.5°	62.8	54.0	41.1	35.0	32.7
80°	47.8	39.0	28.7	25.3	24.7
82.5°	33.0	25.3	19.1	17.9	17.6
85°	20.2	13.6	11.8	11.4	11.0
87.5°	8.5	5.9	5.5	5.5	5.1
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)