

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: P888381

Luminaire Tested: **DPT5-4F029-61S35-F-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: P888381  
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-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

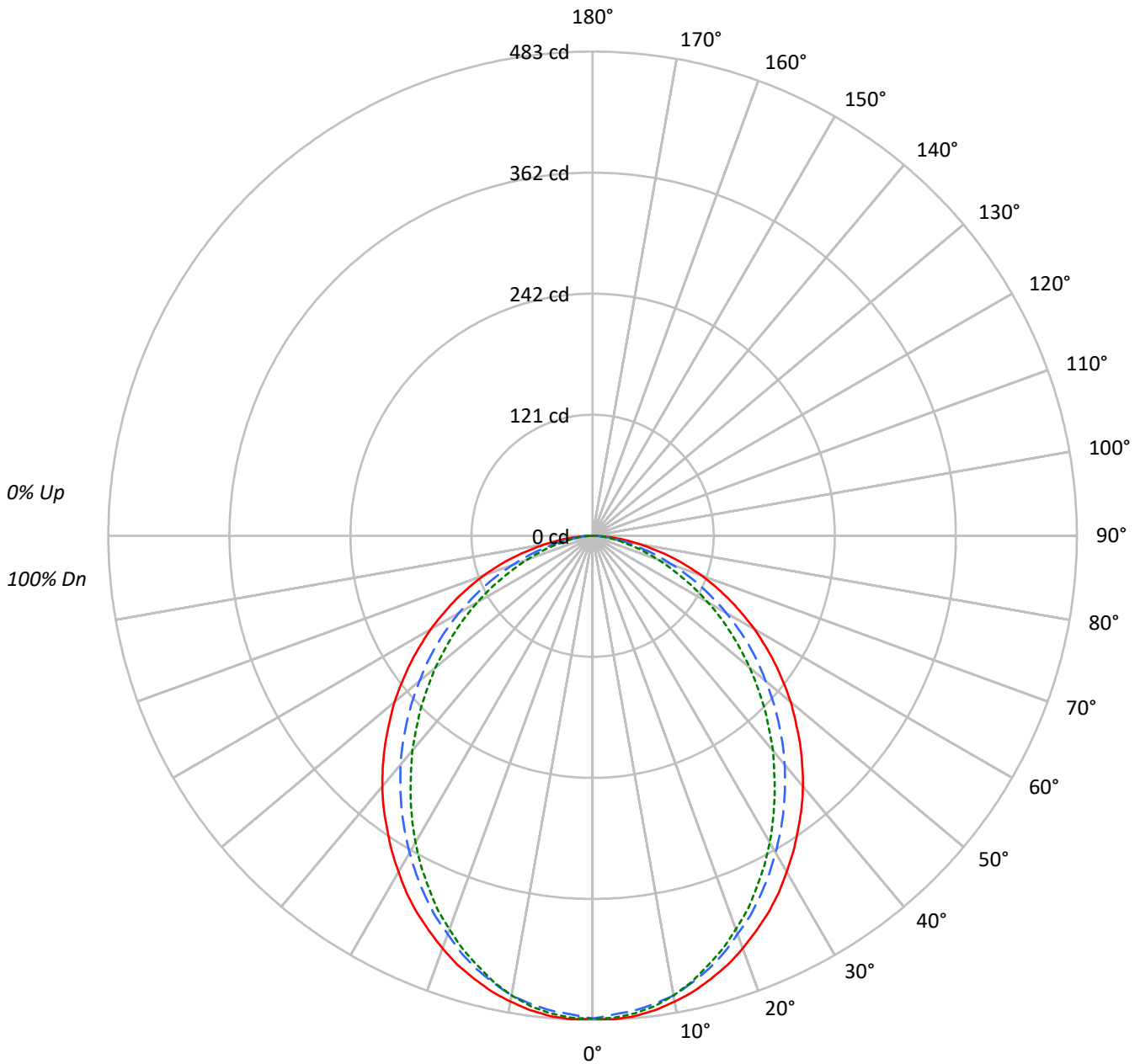
Lumens per Lamp: N/A  
Luminaire Lumens: 1138.0 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

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°	5737	5737	5737
5°	5750	5685	5718
10°	5706	5631	5631
15°	5638	5516	5472
20°	5551	5357	5294
25°	5449	5201	5087
30°	5323	5018	4859
35°	5195	4830	4602
40°	5073	4631	4350
45°	4926	4411	4074
50°	4778	4173	3789
55°	4610	3945	3484
60°	4438	3666	3154
65°	4236	3342	2776
70°	4004	2939	2396
75°	3681	2480	1992
80°	3244	1948	1673
85°	2733	1599	1489



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.3	4.0
10°-20°	126.7	11.1
20°-30°	183.7	16.1
30°-40°	209.3	18.4
40°-50°	204.0	17.9
50°-60°	171.7	15.1
60°-70°	120.3	10.6
70°-80°	61.7	5.4
80°-90°	15.4	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°	355.7	31.3
0°-40°	565.0	49.6
0°-60°	940.6	82.7
0°-90°	1138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1138.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	482	482	482	482	482	
5°	481	480	476	479	478	46
15°	457	455	447	447	444	129
25°	415	409	396	391	387	191
35°	357	348	332	322	316	224
45°	292	282	262	247	242	226
55°	222	210	190	174	168	198
65°	150	138	119	104	98	149
75°	80	69	54	46	43	85
85°	20	13	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°	481.7	481.7	481.7	481.7	481.7
2.5°	482.8	481.7	478.0	481.7	481.3
5°	481.0	479.5	475.5	479.1	478.3
7.5°	477.3	475.8	471.1	474.0	473.3
10°	471.8	470.8	465.6	466.8	465.6
12.5°	465.6	464.1	456.9	457.6	455.8
15°	457.3	455.1	447.4	447.1	443.8
17.5°	448.6	445.3	436.1	434.4	431.8
20°	438.0	434.4	422.7	420.9	417.7
22.5°	426.4	422.7	410.4	406.4	403.7
25°	414.7	409.2	395.8	391.1	387.1
27.5°	401.7	395.0	380.9	374.7	370.8
30°	387.1	380.2	364.9	356.6	353.3
32.5°	372.8	364.5	348.9	339.4	335.1
35°	357.3	348.5	332.2	321.6	316.5
37.5°	342.3	331.7	315.0	302.7	297.5
40°	326.3	315.4	297.9	284.1	279.8
42.5°	309.5	298.3	280.1	267.0	260.1
45°	292.5	282.0	261.9	247.4	241.9
47.5°	274.6	263.8	243.7	228.8	222.6
50°	257.9	245.9	225.2	209.9	204.5
52.5°	239.7	227.4	208.0	191.3	185.8
55°	222.0	210.3	190.0	173.6	167.8
57.5°	203.7	191.3	171.7	155.7	150.6
60°	186.3	173.6	153.9	137.9	132.4
62.5°	167.8	155.7	135.7	121.1	115.7
65°	150.3	137.9	118.6	104.0	98.5
67.5°	132.7	120.5	101.8	88.1	83.7
70°	115.0	102.6	84.4	73.1	68.8
72.5°	97.5	85.5	68.8	58.6	56.1
75°	80.0	69.1	53.9	45.9	43.3
77.5°	62.2	53.4	40.7	34.6	32.4
80°	47.3	38.6	28.4	25.1	24.4
82.5°	32.7	25.1	19.0	17.7	17.5
85°	20.0	13.4	11.7	11.3	10.9
87.5°	8.4	5.8	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)