

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: P888062

Luminaire Tested: **DPT5-4F021-85S35-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: P888062  
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: DPT5-4F021-85S35-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

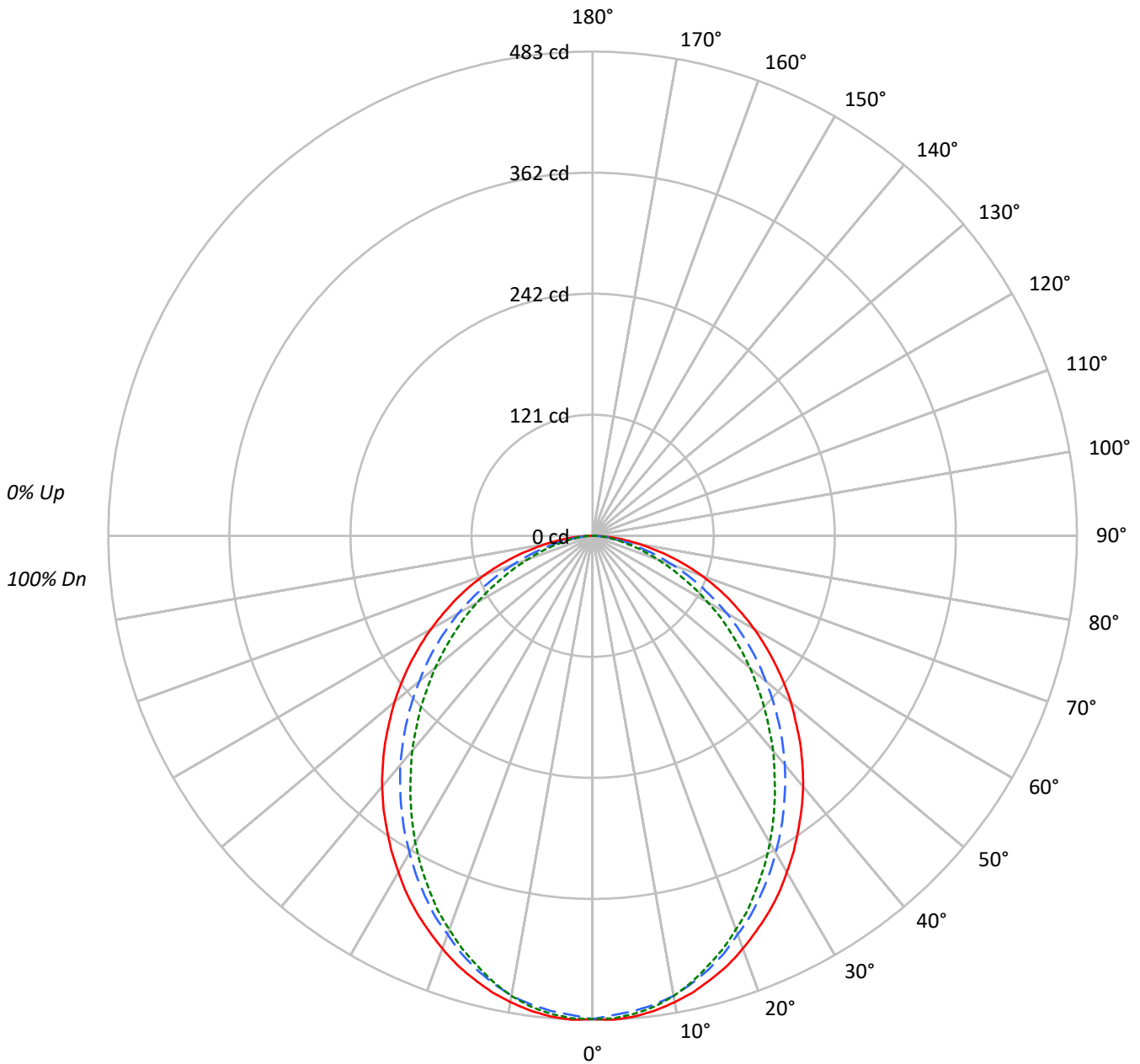
Lumens per Lamp: N/A  
Luminaire Lumens: 1139.0 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.4  
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°	8067	8067	8067
5°	8086	7994	8041
10°	8025	7918	7918
15°	7929	7758	7695
20°	7805	7534	7444
25°	7662	7313	7153
30°	7486	7057	6832
35°	7305	6790	6472
40°	7134	6514	6116
45°	6927	6203	5729
50°	6719	5868	5329
55°	6480	5546	4898
60°	6238	5154	4434
65°	5955	4700	3904
70°	5631	4129	3366
75°	5179	3485	2806
80°	4558	2737	2361
85°	3840	2246	2093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.4	4.0
10°-20°	126.8	11.1
20°-30°	183.9	16.1
30°-40°	209.5	18.4
40°-50°	204.2	17.9
50°-60°	171.8	15.1
60°-70°	120.4	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°	356.0	31.3
0°-40°	565.5	49.6
0°-60°	941.5	82.7
0°-90°	1139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1139.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	482	482	482	482	482	
5°	481	480	476	480	479	46
15°	458	456	448	448	444	129
25°	415	410	396	391	387	191
35°	358	349	332	322	317	224
45°	293	282	262	248	242	226
55°	222	210	190	174	168	199
65°	150	138	119	104	99	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°	482.1	482.1	482.1	482.1	482.1
2.5°	483.2	482.1	478.5	482.1	481.7
5°	481.4	480.0	475.9	479.5	478.7
7.5°	477.7	476.2	471.5	474.4	473.7
10°	472.3	471.2	466.0	467.2	466.0
12.5°	466.0	464.6	457.3	458.0	456.2
15°	457.7	455.5	447.8	447.5	444.2
17.5°	449.0	445.7	436.5	434.8	432.2
20°	438.3	434.8	423.1	421.3	418.0
22.5°	426.7	423.1	410.8	406.7	404.1
25°	415.0	409.6	396.1	391.4	387.4
27.5°	402.0	395.4	381.2	375.1	371.1
30°	387.4	380.5	365.2	356.9	353.6
32.5°	373.2	364.9	349.2	339.7	335.4
35°	357.6	348.9	332.4	321.9	316.8
37.5°	342.6	332.0	315.3	303.0	297.8
40°	326.6	315.7	298.2	284.4	280.0
42.5°	309.8	298.5	280.3	267.3	260.3
45°	292.7	282.3	262.1	247.6	242.1
47.5°	274.8	264.0	243.9	229.0	222.8
50°	258.1	246.1	225.4	210.1	204.7
52.5°	239.9	227.6	208.2	191.5	186.0
55°	222.1	210.5	190.1	173.7	167.9
57.5°	203.9	191.5	171.9	155.8	150.8
60°	186.4	173.7	154.0	138.0	132.5
62.5°	167.9	155.8	135.8	121.2	115.8
65°	150.4	138.0	118.7	104.1	98.6
67.5°	132.9	120.6	101.9	88.1	83.8
70°	115.1	102.7	84.4	73.1	68.8
72.5°	97.6	85.6	68.8	58.6	56.1
75°	80.1	69.2	53.9	45.9	43.4
77.5°	62.2	53.5	40.7	34.6	32.4
80°	47.3	38.6	28.4	25.1	24.5
82.5°	32.8	25.1	19.0	17.8	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)