

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: P888061

Luminaire Tested: **DPT5-4F021-85S30-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: P888061  
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: DPT5-4F021-85S30-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

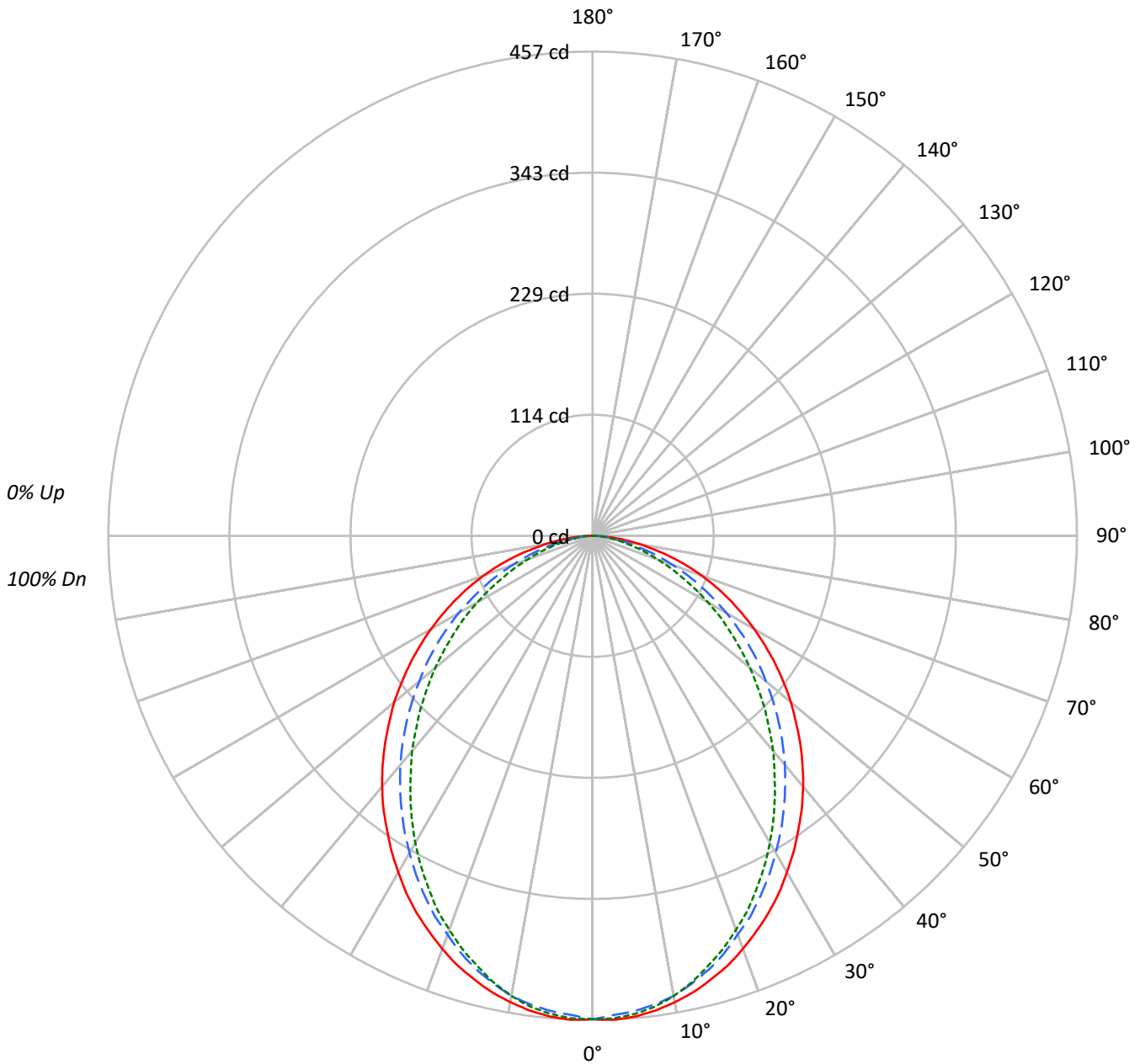
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1078.0 lumens  
Efficiency: N/A  
Efficacy: 94.6 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 (Ain): 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°	7636	7636	7636
5°	7653	7566	7611
10°	7595	7495	7495
15°	7505	7342	7283
20°	7388	7130	7045
25°	7253	6922	6771
30°	7086	6678	6465
35°	6913	6427	6124
40°	6752	6164	5789
45°	6558	5871	5424
50°	6360	5553	5043
55°	6132	5248	4636
60°	5904	4876	4197
65°	5638	4451	3694
70°	5328	3909	3185
75°	4901	3297	2651
80°	4317	2592	2226
85°	3629	2131	1997



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.9	4.0
10°-20°	120.0	11.1
20°-30°	174.0	16.1
30°-40°	198.3	18.4
40°-50°	193.2	17.9
50°-60°	162.6	15.1
60°-70°	114.0	10.6
70°-80°	58.4	5.4
80°-90°	14.6	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°	337.0	31.3
0°-40°	535.2	49.6
0°-60°	891.0	82.7
0°-90°	1078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	456	454	450	454	453	43
15°	433	431	424	424	420	122
25°	393	388	375	370	367	181
35°	338	330	315	305	300	212
45°	277	267	248	234	229	214
55°	210	199	180	164	159	188
65°	142	131	112	98	93	141
75°	76	66	51	44	41	80
85°	19	13	11	11	10	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	456.3	456.3	456.3	456.3	456.3
2.5°	457.3	456.3	452.8	456.3	455.9
5°	455.6	454.3	450.4	453.8	453.1
7.5°	452.1	450.7	446.3	449.0	448.4
10°	447.0	445.9	441.1	442.2	441.1
12.5°	441.1	439.7	432.8	433.5	431.8
15°	433.2	431.1	423.8	423.5	420.4
17.5°	424.9	421.8	413.1	411.5	409.1
20°	414.9	411.5	400.4	398.7	395.6
22.5°	403.9	400.4	388.8	385.0	382.5
25°	392.8	387.6	374.9	370.4	366.7
27.5°	380.5	374.2	360.8	355.0	351.2
30°	366.7	360.2	345.6	337.8	334.6
32.5°	353.2	345.3	330.5	321.5	317.5
35°	338.4	330.2	314.6	304.7	299.8
37.5°	324.3	314.3	298.4	286.8	281.8
40°	309.1	298.8	282.2	269.1	265.0
42.5°	293.2	282.5	265.3	253.0	246.4
45°	277.1	267.1	248.1	234.3	229.2
47.5°	260.1	249.9	230.8	216.8	210.9
50°	244.3	232.9	213.3	198.9	193.7
52.5°	227.1	215.4	197.1	181.2	176.0
55°	210.2	199.2	179.9	164.4	158.9
57.5°	193.0	181.2	162.7	147.5	142.7
60°	176.4	164.4	145.7	130.6	125.4
62.5°	158.9	147.5	128.6	114.7	109.6
65°	142.4	130.6	112.4	98.5	93.3
67.5°	125.7	114.1	96.5	83.4	79.3
70°	108.9	97.2	79.9	69.2	65.1
72.5°	92.4	81.0	65.1	55.5	53.1
75°	75.8	65.5	51.0	43.5	41.0
77.5°	58.9	50.6	38.5	32.8	30.7
80°	44.8	36.6	26.9	23.8	23.1
82.5°	31.0	23.8	18.0	16.8	16.6
85°	18.9	12.7	11.1	10.7	10.4
87.5°	8.0	5.5	5.2	5.2	4.8
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)