

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: P888336

Luminaire Tested: **DPT5-4F021-85S30-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: P888336  
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-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

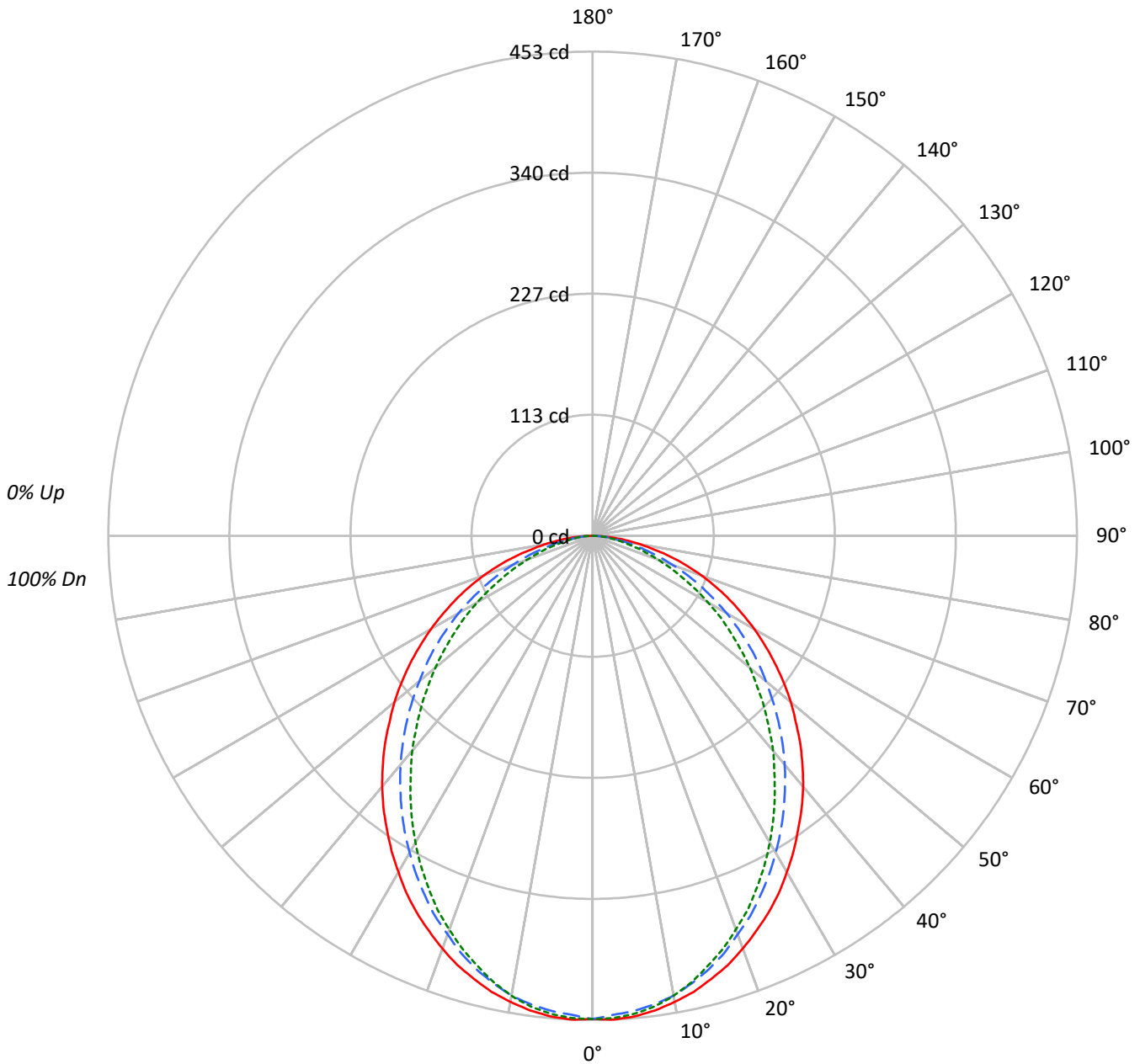
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1068.0 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 1.65' 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°	7565	7565	7565
5°	7582	7495	7540
10°	7524	7425	7425
15°	7435	7274	7215
20°	7319	7064	6981
25°	7186	6857	6708
30°	7020	6616	6405
35°	6850	6367	6067
40°	6691	6108	5736
45°	6496	5817	5372
50°	6303	5501	4996
55°	6077	5202	4592
60°	5850	4833	4160
65°	5583	4407	3663
70°	5279	3875	3156
75°	4856	3265	2631
80°	4279	2573	2207
85°	3590	2112	1978



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.5	4.0
10°-20°	118.9	11.1
20°-30°	172.4	16.1
30°-40°	196.4	18.4
40°-50°	191.4	17.9
50°-60°	161.1	15.1
60°-70°	112.9	10.6
70°-80°	57.9	5.4
80°-90°	14.4	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°	333.8	31.3
0°-40°	530.2	49.6
0°-60°	882.8	82.7
0°-90°	1068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1068.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	452	452	452	452	452	
5°	451	450	446	450	449	43
15°	429	427	420	420	416	121
25°	389	384	371	367	363	179
35°	335	327	312	302	297	210
45°	274	265	246	232	227	212
55°	208	197	178	163	157	186
65°	141	129	111	98	92	140
75°	75	65	50	43	41	79
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°	452.1	452.1	452.1	452.1	452.1
2.5°	453.1	452.1	448.6	452.1	451.7
5°	451.4	450.0	446.2	449.6	448.9
7.5°	447.9	446.6	442.1	444.8	444.2
10°	442.8	441.8	437.0	438.1	437.0
12.5°	437.0	435.6	428.8	429.5	427.8
15°	429.2	427.1	419.9	419.6	416.5
17.5°	421.0	417.9	409.3	407.7	405.3
20°	411.0	407.7	396.7	395.0	392.0
22.5°	400.1	396.7	385.2	381.4	378.9
25°	389.2	384.0	371.4	367.0	363.3
27.5°	377.0	370.7	357.4	351.7	347.9
30°	363.3	356.8	342.4	334.6	331.5
32.5°	349.9	342.1	327.4	318.6	314.5
35°	335.3	327.1	311.7	301.8	297.0
37.5°	321.3	311.3	295.6	284.1	279.2
40°	306.3	296.0	279.6	266.6	262.6
42.5°	290.5	279.9	262.8	250.6	244.1
45°	274.5	264.7	245.8	232.2	227.0
47.5°	257.7	247.6	228.7	214.8	208.9
50°	242.1	230.8	211.3	197.0	191.9
52.5°	225.0	213.4	195.3	179.5	174.4
55°	208.3	197.3	178.3	162.9	157.4
57.5°	191.2	179.5	161.2	146.1	141.4
60°	174.8	162.9	144.4	129.4	124.3
62.5°	157.4	146.1	127.4	113.7	108.6
65°	141.0	129.4	111.3	97.6	92.5
67.5°	124.6	113.0	95.6	82.6	78.6
70°	107.9	96.3	79.2	68.6	64.5
72.5°	91.5	80.2	64.5	55.0	52.6
75°	75.1	64.9	50.5	43.1	40.7
77.5°	58.3	50.2	38.2	32.5	30.4
80°	44.4	36.2	26.7	23.6	22.9
82.5°	30.7	23.6	17.8	16.7	16.4
85°	18.7	12.6	11.0	10.6	10.3
87.5°	7.9	5.4	5.1	5.1	4.7
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)