

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: P888325

Luminaire Tested: **DPT5-4F021-61S30-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: P888325  
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: DPT5-4F021-61S30-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

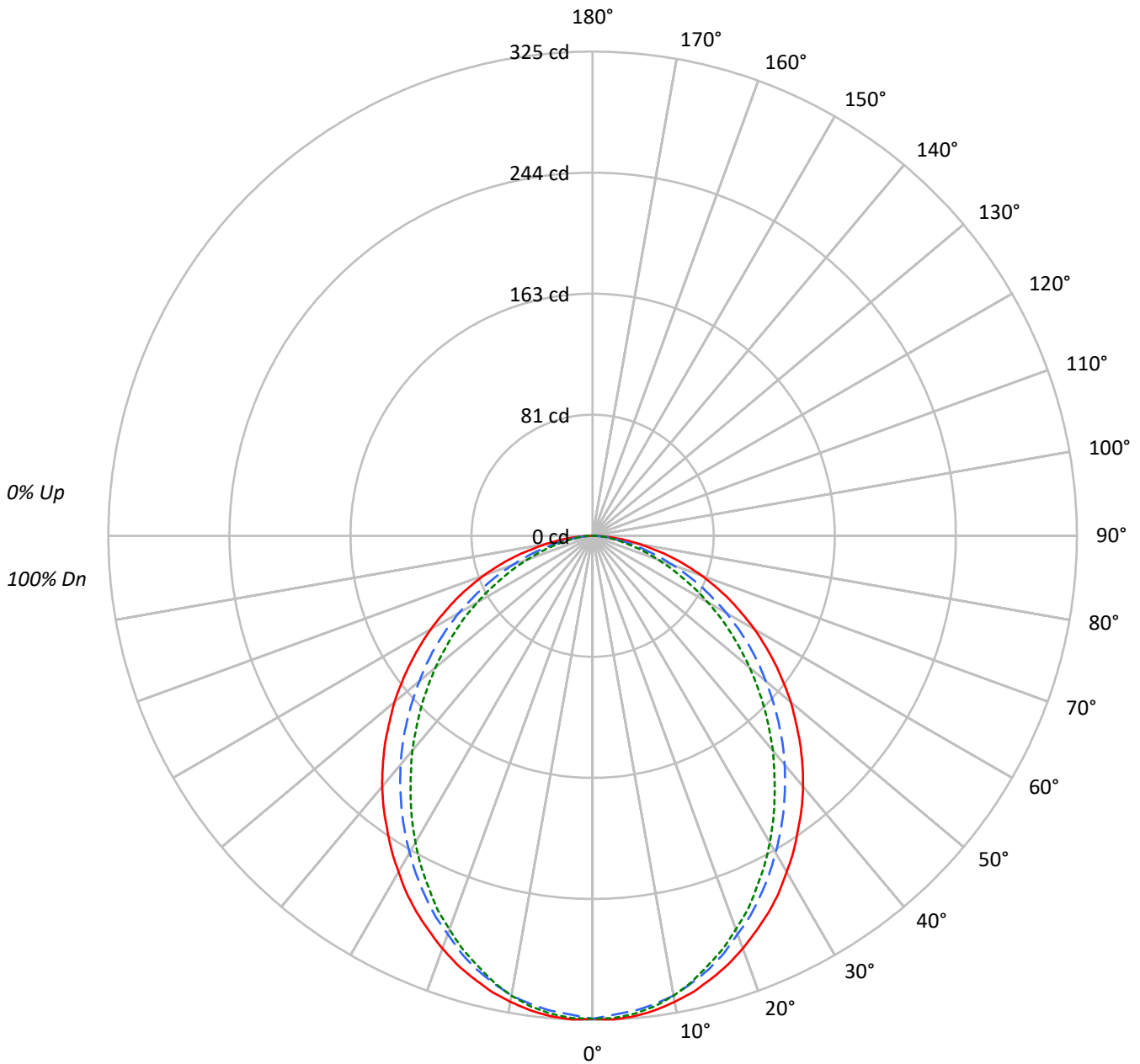
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 766.0 lumens  
Efficiency: N/A  
Efficacy: 93.4 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): 8.2  
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°	5425	5425	5425
5°	5437	5377	5409
10°	5397	5325	5325
15°	5332	5218	5175
20°	5250	5066	5006
25°	5153	4919	4810
30°	5034	4746	4595
35°	4913	4568	4351
40°	4799	4380	4113
45°	4660	4172	3853
50°	4519	3947	3582
55°	4359	3731	3294
60°	4197	3467	2982
65°	4007	3164	2625
70°	3787	2779	2265
75°	3485	2340	1888
80°	3064	1841	1580
85°	2573	1517	1421



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.5	4.0
10°-20°	85.3	11.1
20°-30°	123.6	16.1
30°-40°	140.9	18.4
40°-50°	137.3	17.9
50°-60°	115.6	15.1
60°-70°	81.0	10.6
70°-80°	41.5	5.4
80°-90°	10.4	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°	239.4	31.3
0°-40°	380.3	49.6
0°-60°	633.1	82.7
0°-90°	766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	766.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	324	324	324	324	324	
5°	324	323	320	322	322	31
15°	308	306	301	301	299	87
25°	279	275	266	263	260	128
35°	240	235	224	216	213	151
45°	197	190	176	166	163	152
55°	149	142	128	117	113	134
65°	101	93	80	70	66	100
75°	54	46	36	31	29	57
85°	13	9	8	8	7	16
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	324.2	324.2	324.2	324.2	324.2
2.5°	325.0	324.2	321.8	324.2	324.0
5°	323.7	322.8	320.1	322.5	322.0
7.5°	321.3	320.3	317.1	319.1	318.6
10°	317.6	316.9	313.4	314.2	313.4
12.5°	313.4	312.4	307.5	308.0	306.8
15°	307.8	306.3	301.2	300.9	298.7
17.5°	301.9	299.7	293.6	292.4	290.7
20°	294.8	292.4	284.5	283.3	281.1
22.5°	287.0	284.5	276.3	273.5	271.8
25°	279.1	275.4	266.4	263.2	260.5
27.5°	270.4	265.9	256.4	252.2	249.6
30°	260.5	255.9	245.6	240.0	237.8
32.5°	251.0	245.4	234.8	228.5	225.6
35°	240.5	234.6	223.6	216.5	213.0
37.5°	230.4	223.3	212.0	203.8	200.3
40°	219.7	212.3	200.5	191.2	188.3
42.5°	208.4	200.8	188.5	179.7	175.1
45°	196.9	189.8	176.3	166.5	162.8
47.5°	184.8	177.6	164.0	154.0	149.9
50°	173.6	165.5	151.6	141.3	137.6
52.5°	161.3	153.1	140.0	128.8	125.1
55°	149.4	141.5	127.9	116.8	112.9
57.5°	137.1	128.8	115.6	104.8	101.4
60°	125.4	116.8	103.6	92.8	89.1
62.5°	112.9	104.8	91.3	81.5	77.9
65°	101.2	92.8	79.9	70.0	66.3
67.5°	89.3	81.1	68.5	59.3	56.4
70°	77.4	69.0	56.8	49.2	46.3
72.5°	65.6	57.6	46.3	39.4	37.7
75°	53.9	46.5	36.2	30.9	29.2
77.5°	41.8	36.0	27.4	23.3	21.8
80°	31.8	26.0	19.1	16.9	16.4
82.5°	22.0	16.9	12.8	11.9	11.8
85°	13.4	9.0	7.9	7.6	7.4
87.5°	5.7	3.9	3.7	3.7	3.4
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)