

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: P888049

Luminaire Tested: **DPT5-4F021-61S27-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: P888049  
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: DPT5-4F021-61S27-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

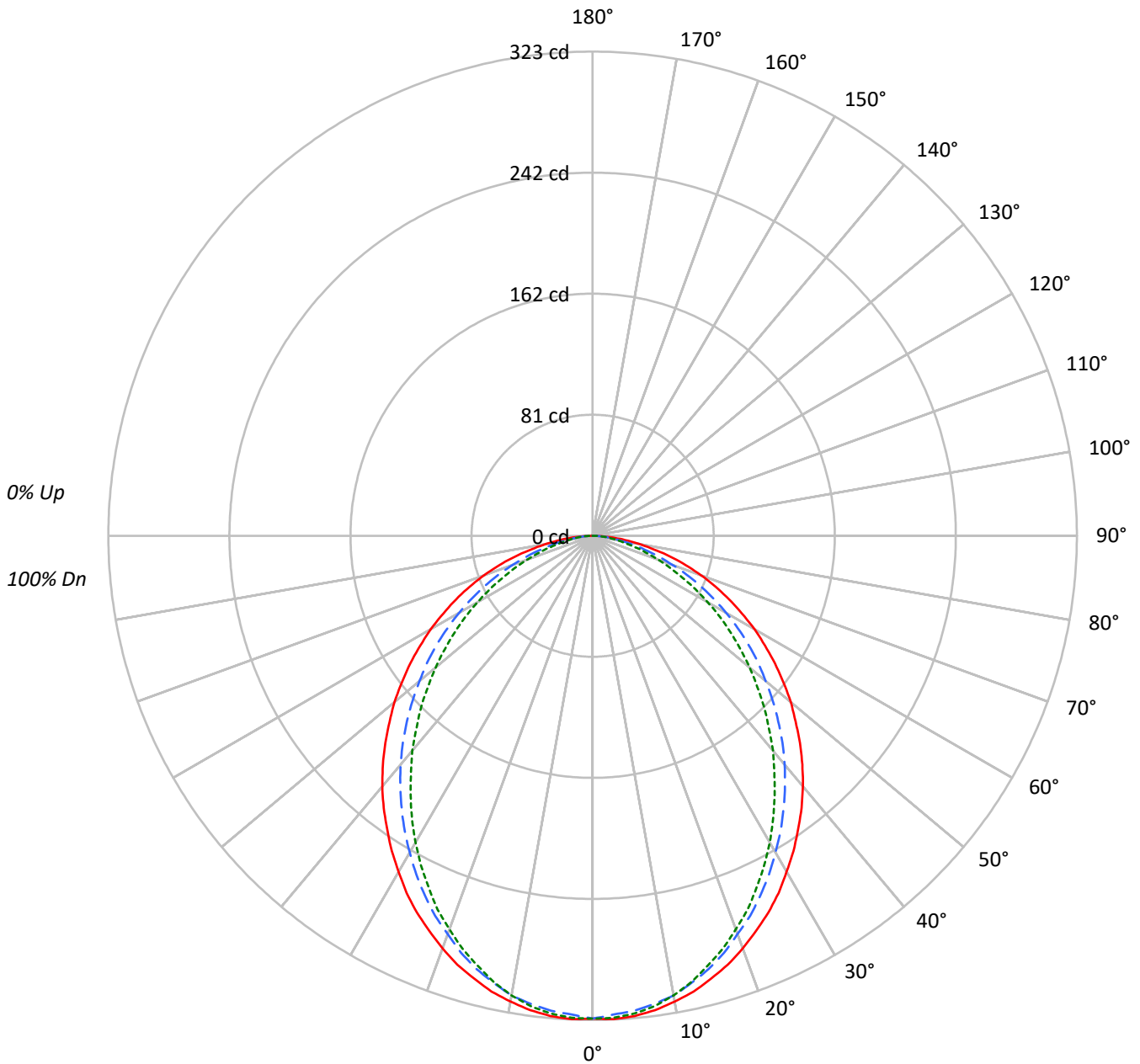
Lumens per Lamp: N/A  
Luminaire Lumens: 761.0 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P888049

CATALOG NUMBER: DPT5-4F021-61S27-A-XX-UDD

### 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°	5390	5390	5390
5°	5402	5342	5374
10°	5361	5291	5291
15°	5298	5183	5142
20°	5216	5034	4974
25°	5120	4887	4778
30°	5001	4715	4564
35°	4880	4537	4323
40°	4766	4351	4087
45°	4629	4144	3829
50°	4491	3921	3559
55°	4329	3705	3273
60°	4170	3444	2962
65°	3979	3140	2609
70°	3762	2759	2251
75°	3459	2328	1875
80°	3045	1831	1571
85°	2573	1498	1402



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.3	4.0
10°-20°	84.7	11.1
20°-30°	122.8	16.1
30°-40°	139.9	18.4
40°-50°	136.4	17.9
50°-60°	114.8	15.1
60°-70°	80.4	10.6
70°-80°	41.3	5.4
80°-90°	10.3	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°	237.9	31.3
0°-40°	377.8	49.6
0°-60°	629.0	82.7
0°-90°	761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	761.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	322	322	322	322	322	
5°	322	321	318	320	320	31
15°	306	304	299	299	297	86
25°	277	274	265	262	259	128
35°	239	233	222	215	212	150
45°	196	189	175	165	162	151
55°	148	141	127	116	112	133
65°	100	92	79	70	66	100
75°	54	46	36	31	29	57
85°	13	9	8	8	7	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	322.1	322.1	322.1	322.1	322.1
2.5°	322.8	322.1	319.7	322.1	321.8
5°	321.6	320.7	318.0	320.4	319.9
7.5°	319.2	318.2	315.0	317.0	316.5
10°	315.5	314.8	311.4	312.1	311.4
12.5°	311.4	310.4	305.5	306.0	304.8
15°	305.8	304.3	299.2	299.0	296.8
17.5°	300.0	297.8	291.7	290.5	288.8
20°	292.9	290.5	282.7	281.5	279.3
22.5°	285.1	282.7	274.5	271.8	270.0
25°	277.3	273.6	264.7	261.5	258.8
27.5°	268.6	264.2	254.7	250.6	247.9
30°	258.8	254.2	244.0	238.5	236.2
32.5°	249.3	243.8	233.3	227.0	224.1
35°	238.9	233.1	222.1	215.1	211.6
37.5°	228.9	221.8	210.7	202.4	199.0
40°	218.2	210.9	199.2	190.0	187.1
42.5°	207.0	199.5	187.3	178.6	173.9
45°	195.6	188.6	175.1	165.4	161.8
47.5°	183.6	176.4	163.0	153.0	148.9
50°	172.5	164.4	150.6	140.4	136.7
52.5°	160.3	152.1	139.1	127.9	124.3
55°	148.4	140.6	127.0	116.1	112.2
57.5°	136.2	127.9	114.8	104.1	100.7
60°	124.6	116.1	102.9	92.2	88.5
62.5°	112.2	104.1	90.8	81.0	77.3
65°	100.5	92.2	79.3	69.5	65.9
67.5°	88.8	80.6	68.1	58.9	56.0
70°	76.9	68.6	56.4	48.9	46.0
72.5°	65.2	57.2	46.0	39.2	37.5
75°	53.5	46.2	36.0	30.7	29.0
77.5°	41.6	35.7	27.2	23.2	21.7
80°	31.6	25.8	19.0	16.8	16.3
82.5°	21.9	16.8	12.7	11.9	11.7
85°	13.4	9.0	7.8	7.5	7.3
87.5°	5.6	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)