

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: P888038

Luminaire Tested: **DPT5-4F021-37S27-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: P888038  
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: DPT5-4F021-37S27-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

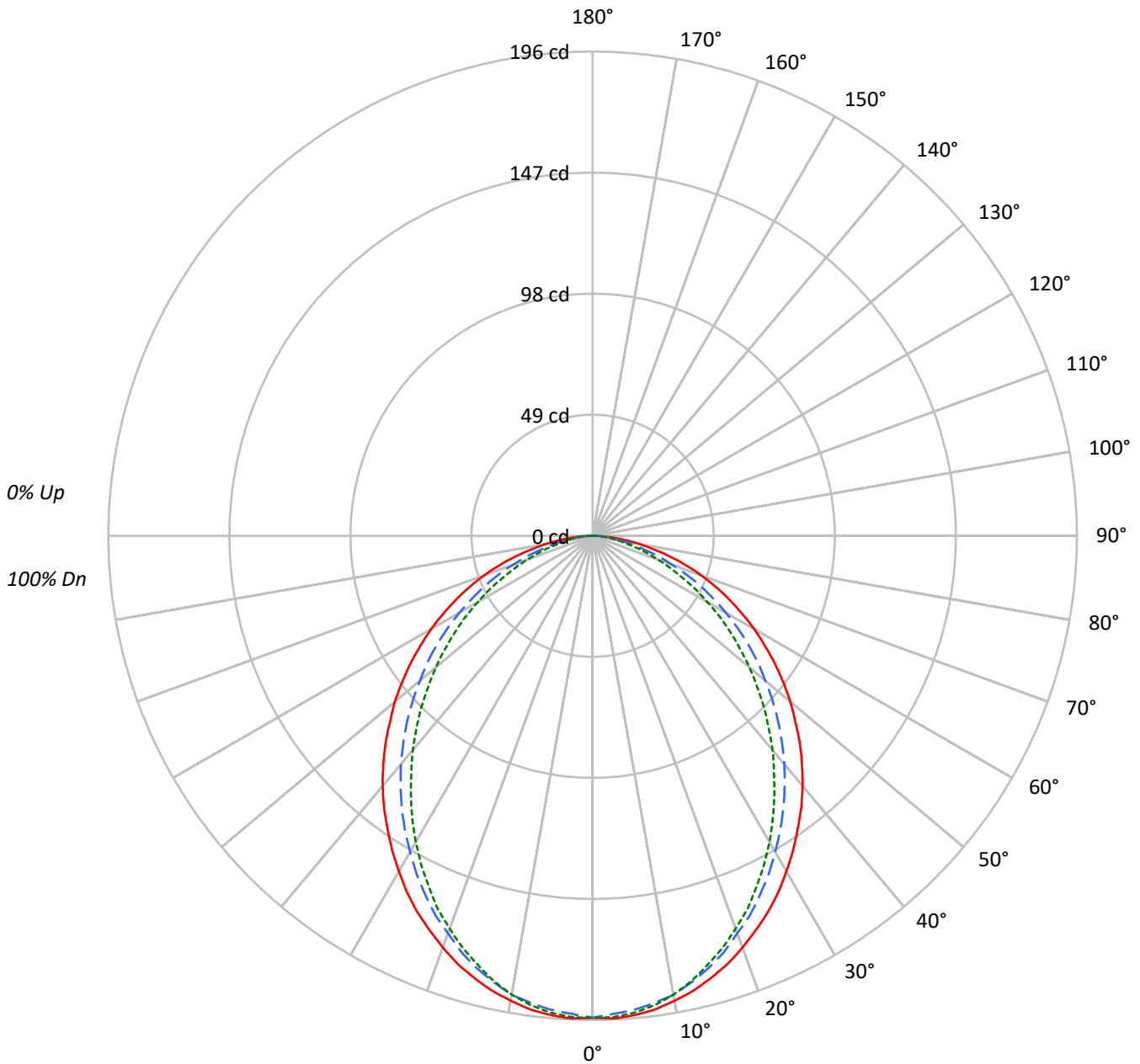
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 461.0 lumens  
Efficiency: N/A  
Efficacy: 92.2 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): 5  
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°	3265	3265	3265
5°	3272	3235	3255
10°	3247	3205	3205
15°	3210	3139	3115
20°	3159	3049	3013
25°	3102	2960	2895
30°	3030	2856	2765
35°	2956	2750	2619
40°	2888	2637	2475
45°	2804	2511	2319
50°	2720	2374	2156
55°	2623	2246	1984
60°	2527	2085	1794
65°	2411	1905	1580
70°	2280	1673	1365
75°	2095	1409	1138
80°	1850	1108	954
85°	1555	902	845



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.4	4.0
10°-20°	51.3	11.1
20°-30°	74.4	16.1
30°-40°	84.8	18.4
40°-50°	82.6	17.9
50°-60°	69.5	15.1
60°-70°	48.7	10.6
70°-80°	25.0	5.4
80°-90°	6.2	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°	144.1	31.3
0°-40°	228.9	49.6
0°-60°	381.0	82.7
0°-90°	461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	461.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	195	195	195	195	195	
5°	195	194	193	194	194	18
15°	185	184	181	181	180	52
25°	168	166	160	158	157	77
35°	145	141	135	130	128	91
45°	118	114	106	100	98	91
55°	90	85	77	70	68	80
65°	61	56	48	42	40	60
75°	32	28	22	19	18	34
85°	8	5	5	5	4	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	195.1	195.1	195.1	195.1	195.1
2.5°	195.6	195.1	193.7	195.1	195.0
5°	194.8	194.3	192.6	194.1	193.8
7.5°	193.4	192.8	190.8	192.0	191.7
10°	191.1	190.7	188.6	189.1	188.6
12.5°	188.6	188.0	185.1	185.4	184.7
15°	185.3	184.4	181.2	181.1	179.8
17.5°	181.7	180.4	176.7	176.0	174.9
20°	177.4	176.0	171.2	170.5	169.2
22.5°	172.7	171.2	166.3	164.6	163.6
25°	168.0	165.8	160.3	158.4	156.8
27.5°	162.7	160.0	154.3	151.8	150.2
30°	156.8	154.0	147.8	144.4	143.1
32.5°	151.0	147.7	141.3	137.5	135.8
35°	144.7	141.2	134.6	130.3	128.2
37.5°	138.7	134.4	127.6	122.6	120.5
40°	132.2	127.8	120.7	115.1	113.3
42.5°	125.4	120.8	113.4	108.2	105.4
45°	118.5	114.2	106.1	100.2	98.0
47.5°	111.2	106.9	98.7	92.7	90.2
50°	104.5	99.6	91.2	85.0	82.8
52.5°	97.1	92.1	84.3	77.5	75.3
55°	89.9	85.2	77.0	70.3	68.0
57.5°	82.5	77.5	69.6	63.1	61.0
60°	75.5	70.3	62.3	55.8	53.6
62.5°	68.0	63.1	55.0	49.1	46.9
65°	60.9	55.8	48.1	42.1	39.9
67.5°	53.8	48.8	41.3	35.7	33.9
70°	46.6	41.6	34.2	29.6	27.9
72.5°	39.5	34.6	27.9	23.7	22.7
75°	32.4	28.0	21.8	18.6	17.6
77.5°	25.2	21.7	16.5	14.0	13.1
80°	19.2	15.6	11.5	10.2	9.9
82.5°	13.3	10.2	7.7	7.2	7.1
85°	8.1	5.4	4.7	4.6	4.4
87.5°	3.4	2.4	2.2	2.2	2.1
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)