

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: P888041

Luminaire Tested: **DPT5-4F021-37S40-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: P888041  
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: DPT5-4F021-37S40-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

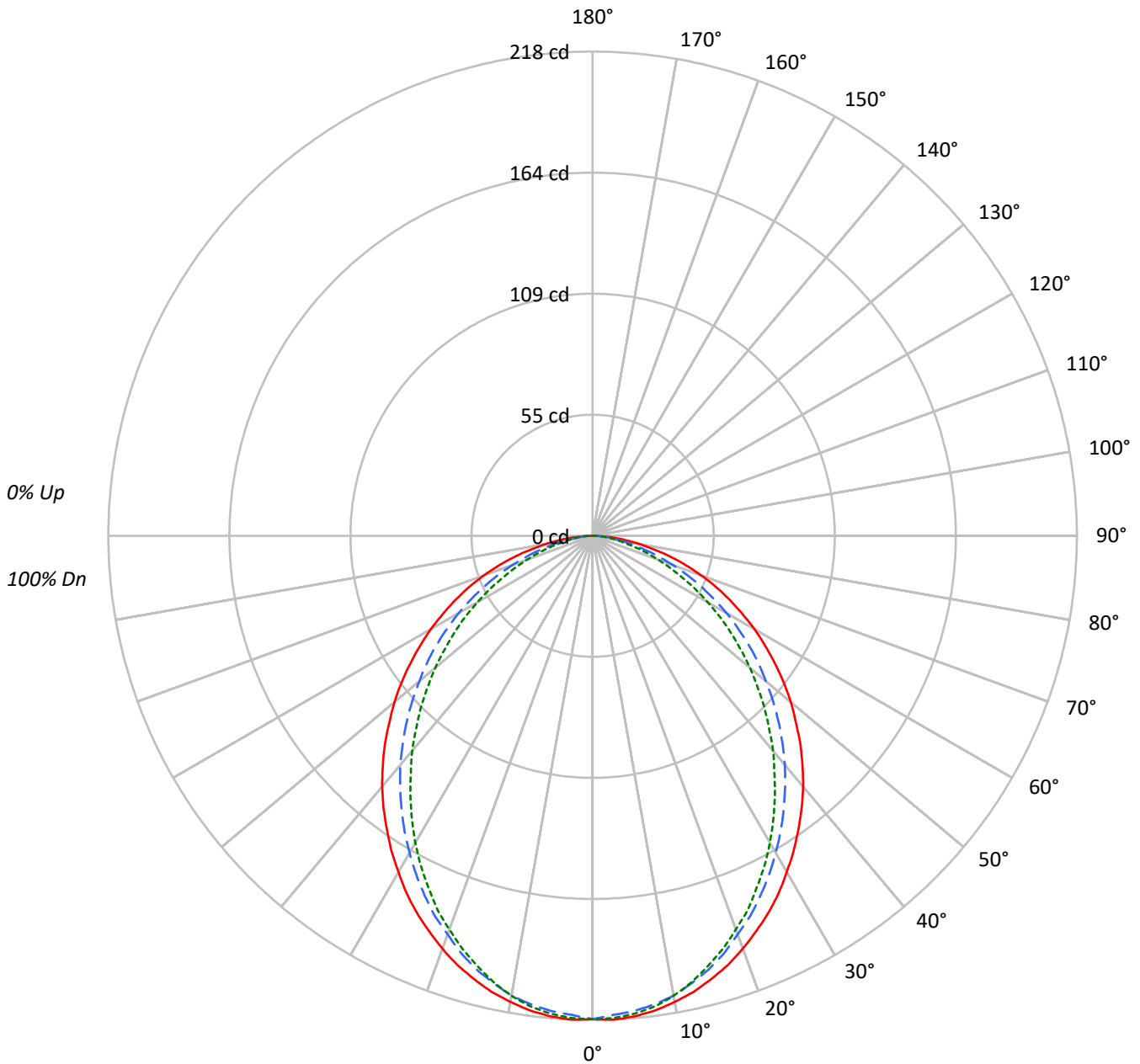
Lumens per Lamp: N/A  
Luminaire Lumens: 514.0 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	3641	3641	3641
5°	3648	3608	3628
10°	3621	3573	3573
15°	3579	3501	3473
20°	3522	3399	3359
25°	3458	3301	3227
30°	3378	3184	3084
35°	3297	3064	2921
40°	3220	2940	2761
45°	3126	2800	2587
50°	3033	2648	2405
55°	2923	2503	2211
60°	2815	2326	2001
65°	2689	2122	1762
70°	2539	1864	1522
75°	2334	1571	1267
80°	2062	1233	1060
85°	1728	1018	941



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.5	4.0
10°-20°	57.2	11.1
20°-30°	83.0	16.1
30°-40°	94.5	18.4
40°-50°	92.1	17.9
50°-60°	77.5	15.1
60°-70°	54.3	10.6
70°-80°	27.8	5.4
80°-90°	7.0	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°	160.7	31.3
0°-40°	255.2	49.6
0°-60°	424.9	82.7
0°-90°	514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	514.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	218	218	218	218	218	
5°	217	217	215	216	216	21
15°	207	206	202	202	200	58
25°	187	185	179	177	175	86
35°	161	157	150	145	143	101
45°	132	127	118	112	109	102
55°	100	95	86	78	76	90
65°	68	62	54	47	44	67
75°	36	31	24	21	20	38
85°	9	6	5	5	5	10
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	217.6	217.6	217.6	217.6	217.6
2.5°	218.1	217.6	215.9	217.6	217.4
5°	217.2	216.6	214.8	216.4	216.0
7.5°	215.6	214.9	212.8	214.1	213.8
10°	213.1	212.6	210.3	210.8	210.3
12.5°	210.3	209.6	206.3	206.7	205.9
15°	206.6	205.6	202.1	201.9	200.5
17.5°	202.6	201.1	197.0	196.2	195.0
20°	197.8	196.2	190.9	190.1	188.6
22.5°	192.6	190.9	185.4	183.6	182.4
25°	187.3	184.8	178.8	176.6	174.8
27.5°	181.4	178.4	172.0	169.3	167.5
30°	174.8	171.7	164.8	161.1	159.6
32.5°	168.4	164.7	157.6	153.3	151.4
35°	161.4	157.4	150.0	145.3	143.0
37.5°	154.6	149.8	142.3	136.7	134.4
40°	147.4	142.5	134.6	128.3	126.4
42.5°	139.8	134.7	126.5	120.6	117.5
45°	132.1	127.4	118.3	111.7	109.3
47.5°	124.0	119.1	110.1	103.4	100.6
50°	116.5	111.1	101.7	94.8	92.4
52.5°	108.3	102.7	94.0	86.4	83.9
55°	100.2	95.0	85.8	78.4	75.8
57.5°	92.0	86.4	77.6	70.3	68.0
60°	84.1	78.4	69.5	62.3	59.8
62.5°	75.8	70.3	61.3	54.7	52.2
65°	67.9	62.3	53.6	47.0	44.5
67.5°	60.0	54.4	46.0	39.8	37.8
70°	51.9	46.3	38.1	33.0	31.1
72.5°	44.0	38.6	31.1	26.5	25.3
75°	36.1	31.2	24.3	20.7	19.6
77.5°	28.1	24.1	18.4	15.6	14.6
80°	21.4	17.4	12.8	11.3	11.0
82.5°	14.8	11.3	8.6	8.0	7.9
85°	9.0	6.1	5.3	5.1	4.9
87.5°	3.8	2.6	2.5	2.5	2.3
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)