

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: P888040

Luminaire Tested: **DPT5-4F021-37S35-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: P888040  
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: DPT5-4F021-37S35-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

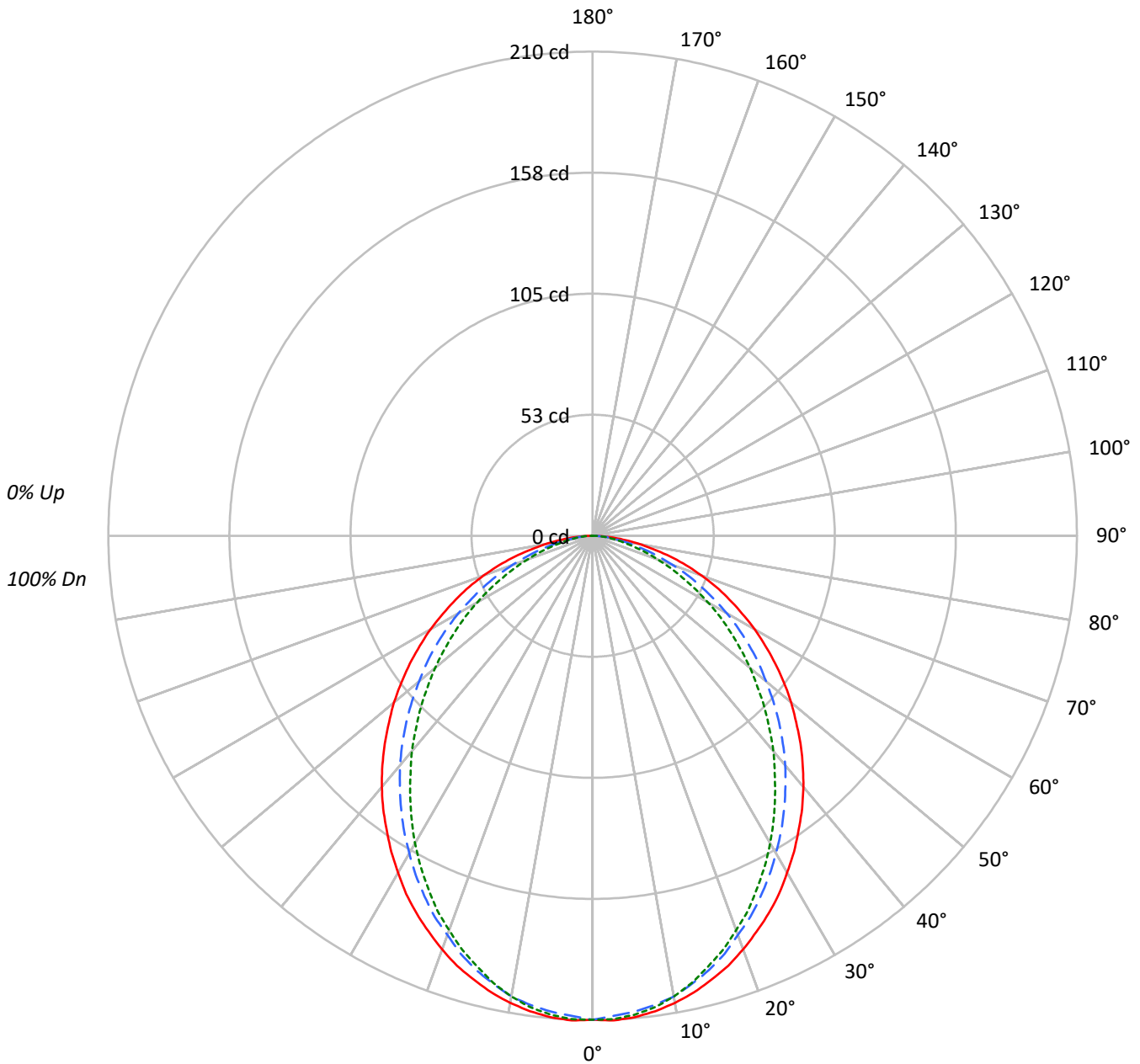
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 496.0 lumens  
Efficiency: N/A  
Efficacy: 99.2 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°	3512	3512	3512
5°	3521	3480	3502
10°	3495	3448	3448
15°	3453	3378	3350
20°	3399	3280	3241
25°	3336	3185	3115
30°	3260	3072	2976
35°	3181	2958	2817
40°	3106	2838	2663
45°	3017	2703	2494
50°	2926	2554	2320
55°	2821	2416	2133
60°	2718	2246	1931
65°	2594	2047	1699
70°	2451	1800	1468
75°	2256	1519	1222
80°	1985	1195	1021
85°	1670	979	922



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.8	4.0
10°-20°	55.2	11.1
20°-30°	80.1	16.1
30°-40°	91.2	18.4
40°-50°	88.9	17.9
50°-60°	74.8	15.1
60°-70°	52.4	10.6
70°-80°	26.9	5.4
80°-90°	6.7	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°	155.0	31.3
0°-40°	246.2	49.6
0°-60°	410.0	82.7
0°-90°	496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	496.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	210	210	210	210	210	
5°	210	209	207	209	208	20
15°	199	198	195	195	193	56
25°	181	178	172	170	169	83
35°	156	152	145	140	138	97
45°	128	123	114	108	105	98
55°	97	92	83	76	73	86
65°	66	60	52	45	43	65
75°	35	30	24	20	19	37
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°	209.9	209.9	209.9	209.9	209.9
2.5°	210.4	209.9	208.4	209.9	209.8
5°	209.6	209.0	207.2	208.8	208.5
7.5°	208.0	207.4	205.3	206.6	206.3
10°	205.7	205.2	202.9	203.4	202.9
12.5°	202.9	202.3	199.1	199.4	198.7
15°	199.3	198.4	195.0	194.9	193.4
17.5°	195.5	194.1	190.1	189.3	188.2
20°	190.9	189.3	184.2	183.4	182.0
22.5°	185.8	184.2	178.9	177.1	176.0
25°	180.7	178.4	172.5	170.4	168.7
27.5°	175.1	172.2	166.0	163.3	161.6
30°	168.7	165.7	159.0	155.4	154.0
32.5°	162.5	158.9	152.1	147.9	146.1
35°	155.7	151.9	144.8	140.2	137.9
37.5°	149.2	144.6	137.3	131.9	129.7
40°	142.2	137.5	129.9	123.8	121.9
42.5°	134.9	130.0	122.1	116.4	113.4
45°	127.5	122.9	114.2	107.8	105.4
47.5°	119.7	115.0	106.2	99.7	97.0
50°	112.4	107.2	98.1	91.5	89.1
52.5°	104.5	99.1	90.7	83.4	81.0
55°	96.7	91.6	82.8	75.6	73.1
57.5°	88.8	83.4	74.9	67.9	65.6
60°	81.2	75.6	67.1	60.1	57.7
62.5°	73.1	67.9	59.1	52.8	50.4
65°	65.5	60.1	51.7	45.3	42.9
67.5°	57.9	52.5	44.4	38.4	36.5
70°	50.1	44.7	36.8	31.9	30.0
72.5°	42.5	37.3	30.0	25.5	24.4
75°	34.9	30.1	23.5	20.0	18.9
77.5°	27.1	23.3	17.7	15.1	14.1
80°	20.6	16.8	12.4	10.9	10.6
82.5°	14.3	10.9	8.3	7.7	7.6
85°	8.7	5.9	5.1	4.9	4.8
87.5°	3.7	2.5	2.4	2.4	2.2
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)