

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: P888481

Luminaire Tested: **DPT5-6FO44-37S40-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: P888481  
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: DPT5-6FO44-37S40-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

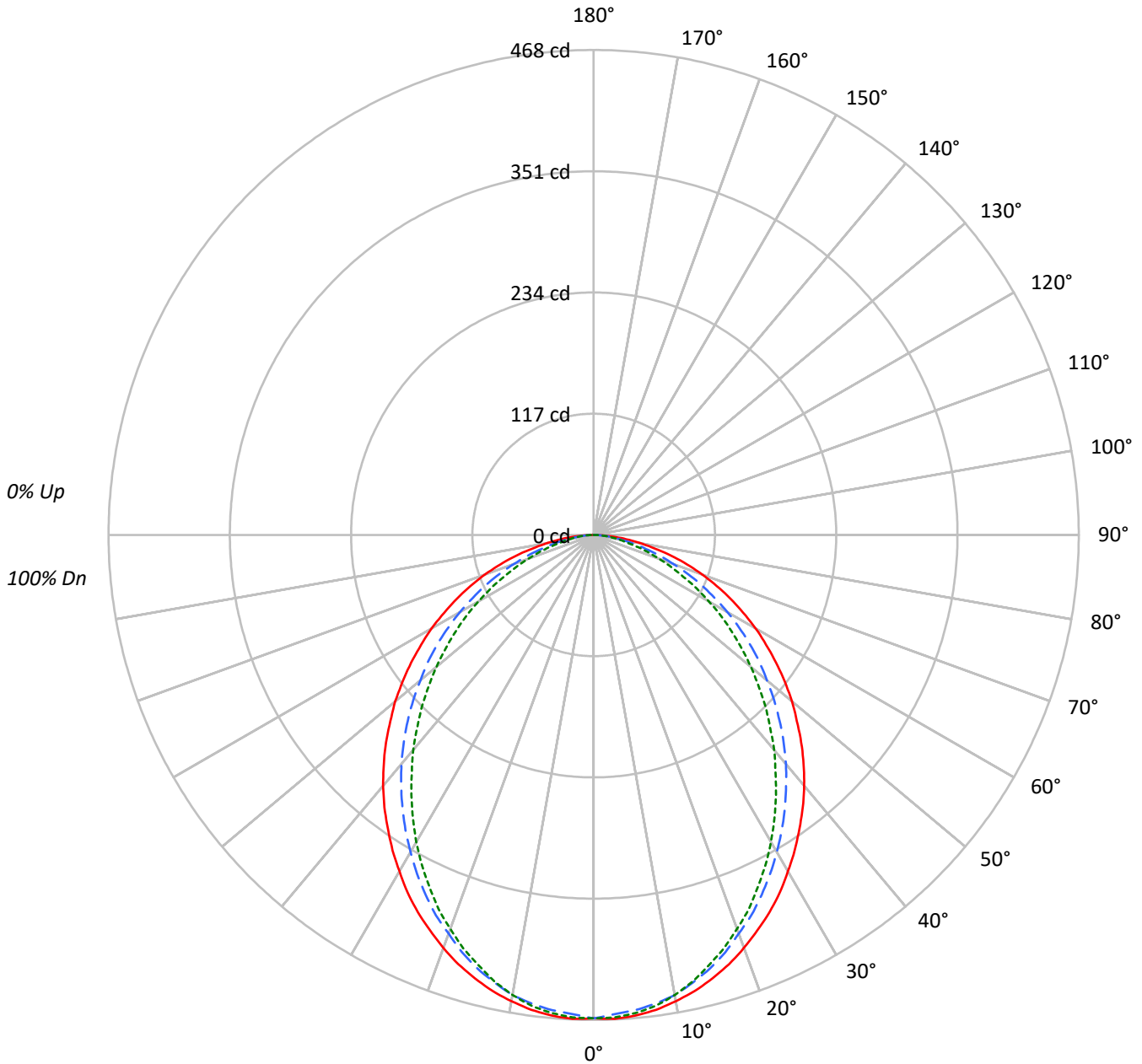
Lumens per Lamp: N/A  
Luminaire Lumens: 1102.0 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.8  
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°	3606	3606	3606
5°	3614	3573	3595
10°	3587	3540	3540
15°	3545	3468	3440
20°	3489	3367	3327
25°	3426	3270	3197
30°	3346	3154	3054
35°	3265	3035	2893
40°	3189	2911	2734
45°	3096	2773	2562
50°	3004	2623	2381
55°	2896	2480	2190
60°	2789	2304	1982
65°	2662	2102	1745
70°	2518	1847	1505
75°	2315	1556	1255
80°	2039	1224	1055
85°	1712	1002	940



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.9	4.0
10°-20°	122.7	11.1
20°-30°	177.9	16.1
30°-40°	202.7	18.4
40°-50°	197.5	17.9
50°-60°	166.3	15.1
60°-70°	116.5	10.6
70°-80°	59.7	5.4
80°-90°	14.9	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°	344.5	31.3
0°-40°	547.1	49.6
0°-60°	910.9	82.7
0°-90°	1102.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1102.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	466	466	466	466	466	
5°	466	464	460	464	463	44
15°	443	441	433	433	430	125
25°	402	396	383	379	375	185
35°	346	338	322	311	306	217
45°	283	273	254	240	234	218
55°	215	204	184	168	162	192
65°	146	134	115	101	95	144
75°	78	67	52	44	42	82
85°	19	13	11	11	11	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	466.5	466.5	466.5	466.5	466.5
2.5°	467.5	466.5	462.9	466.5	466.1
5°	465.7	464.4	460.4	463.9	463.2
7.5°	462.2	460.8	456.2	459.0	458.4
10°	456.9	455.9	450.9	452.0	450.9
12.5°	450.9	449.5	442.4	443.1	441.4
15°	442.9	440.7	433.3	432.9	429.8
17.5°	434.4	431.2	422.3	420.6	418.2
20°	424.1	420.6	409.3	407.6	404.4
22.5°	412.9	409.3	397.4	393.5	391.0
25°	401.6	396.3	383.3	378.7	374.8
27.5°	389.0	382.5	368.8	362.9	359.0
30°	374.8	368.2	353.3	345.3	342.1
32.5°	361.0	353.0	337.8	328.7	324.5
35°	346.0	337.5	321.6	311.4	306.5
37.5°	331.5	321.3	305.0	293.2	288.1
40°	316.0	305.4	288.5	275.1	270.9
42.5°	299.8	288.8	271.2	258.6	251.9
45°	283.2	273.1	253.6	239.6	234.3
47.5°	265.9	255.4	236.0	221.6	215.6
50°	249.8	238.1	218.1	203.3	198.0
52.5°	232.1	220.2	201.5	185.3	180.0
55°	214.9	203.6	184.0	168.1	162.5
57.5°	197.3	185.3	166.3	150.8	145.9
60°	180.4	168.1	149.0	133.5	128.2
62.5°	162.5	150.8	131.4	117.3	112.0
65°	145.5	133.5	114.9	100.7	95.4
67.5°	128.5	116.6	98.6	85.3	81.1
70°	111.4	99.3	81.7	70.8	66.6
72.5°	94.4	82.8	66.6	56.7	54.3
75°	77.5	66.9	52.1	44.4	42.0
77.5°	60.2	51.8	39.4	33.5	31.4
80°	45.8	37.4	27.5	24.3	23.7
82.5°	31.7	24.3	18.4	17.2	16.9
85°	19.3	13.0	11.3	10.9	10.6
87.5°	8.2	5.6	5.3	5.3	4.9
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)