

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: P888491

Luminaire Tested: **DPT5-6FO44-61S35-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: P888491  
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: DPT5-6FO44-61S35-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

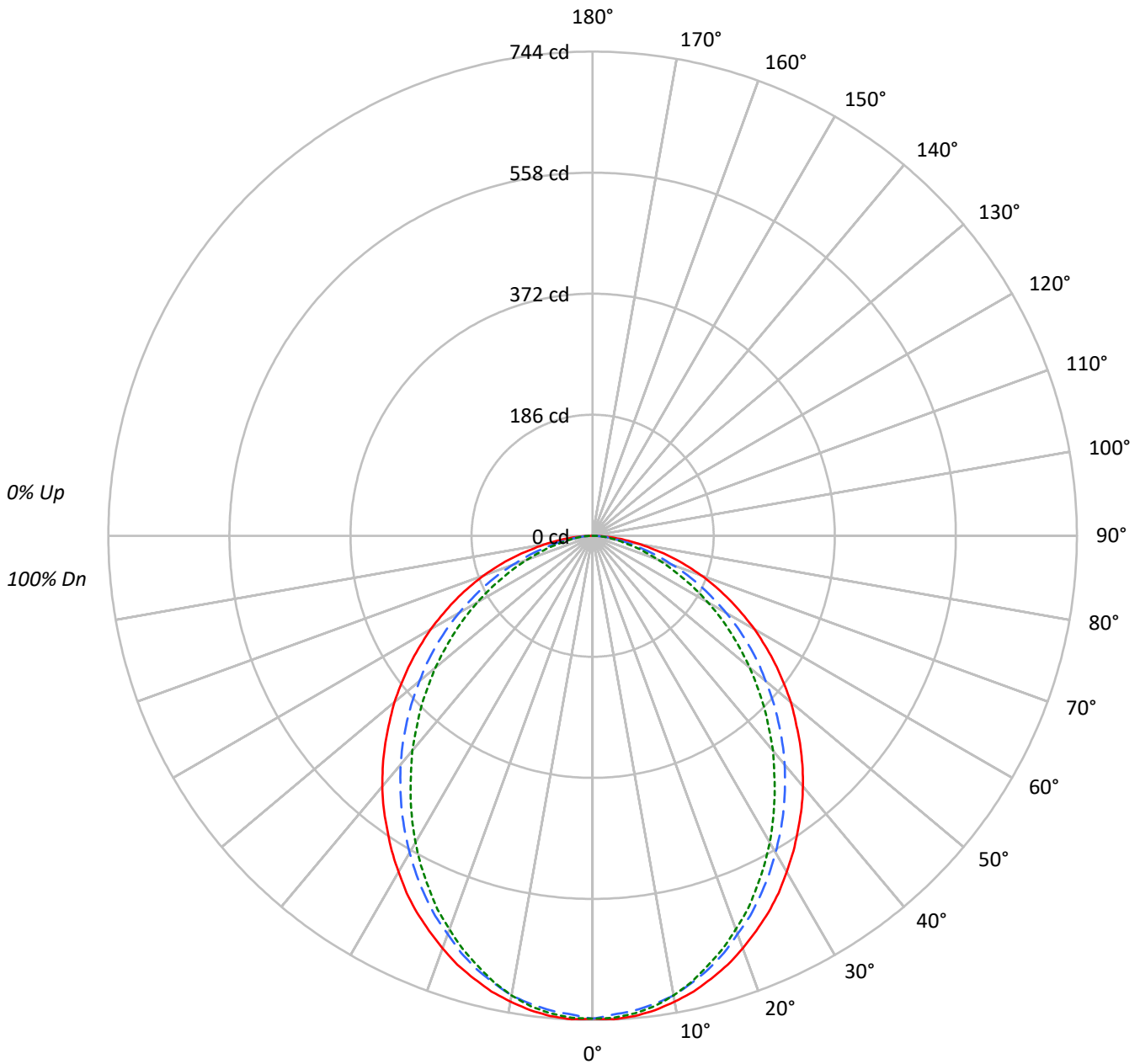
Lumens per Lamp: N/A  
Luminaire Lumens: 1753.0 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.8  
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°	5736	5736	5736
5°	5750	5684	5718
10°	5705	5631	5631
15°	5638	5516	5472
20°	5550	5357	5293
25°	5449	5201	5086
30°	5323	5018	4858
35°	5193	4829	4601
40°	5073	4631	4350
45°	4925	4410	4075
50°	4778	4172	3788
55°	4608	3944	3483
60°	4436	3664	3154
65°	4235	3342	2777
70°	4003	2936	2394
75°	3683	2479	1992
80°	3245	1950	1674
85°	2732	1597	1490



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.8	4.0
10°-20°	195.1	11.1
20°-30°	283.0	16.1
30°-40°	322.4	18.4
40°-50°	314.2	17.9
50°-60°	264.4	15.1
60°-70°	185.3	10.6
70°-80°	95.0	5.4
80°-90°	23.7	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°	547.9	31.3
0°-40°	870.3	49.6
0°-60°	1449.0	82.7
0°-90°	1753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1753.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	741	739	732	738	737	70
15°	704	701	689	689	684	199
25°	639	630	610	602	596	294
35°	550	537	512	495	488	345
45°	450	434	403	381	373	347
55°	342	324	293	267	258	306
65°	232	212	183	160	152	229
75°	123	106	83	71	67	130
85°	31	21	18	17	17	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	742.0	742.0	742.0	742.0	742.0
2.5°	743.7	742.0	736.4	742.0	741.4
5°	740.9	738.7	732.4	738.0	736.8
7.5°	735.3	733.0	725.7	730.2	729.1
10°	726.8	725.2	717.3	719.0	717.3
12.5°	717.3	715.0	703.8	704.9	702.2
15°	704.5	701.1	689.2	688.7	683.7
17.5°	691.0	686.0	671.8	669.1	665.2
20°	674.6	669.1	651.2	648.3	643.4
22.5°	656.8	651.2	632.2	626.0	621.9
25°	638.8	630.4	609.7	602.4	596.3
27.5°	618.7	608.5	586.7	577.2	571.1
30°	596.3	585.7	562.1	549.3	544.2
32.5°	574.3	561.5	537.4	522.9	516.2
35°	550.3	536.9	511.7	495.4	487.5
37.5°	527.3	511.0	485.2	466.3	458.3
40°	502.7	485.9	458.9	437.6	431.0
42.5°	476.8	459.5	431.4	411.3	400.6
45°	450.5	434.4	403.4	381.1	372.7
47.5°	423.0	406.3	375.4	352.5	342.9
50°	397.3	378.8	346.9	323.4	315.0
52.5°	369.2	350.3	320.5	294.7	286.3
55°	341.9	323.9	292.6	267.4	258.4
57.5°	313.8	294.7	264.6	239.8	232.0
60°	286.9	267.4	237.0	212.4	204.0
62.5°	258.4	239.8	209.0	186.6	178.2
65°	231.5	212.4	182.7	160.2	151.8
67.5°	204.5	185.6	156.9	135.7	129.0
70°	177.1	158.0	129.9	112.6	105.9
72.5°	150.2	131.7	105.9	90.2	86.4
75°	123.3	106.4	83.0	70.7	66.7
77.5°	95.7	82.3	62.7	53.3	49.9
80°	72.9	59.5	43.8	38.7	37.6
82.5°	50.4	38.7	29.2	27.3	26.9
85°	30.8	20.7	18.0	17.4	16.8
87.5°	13.0	8.9	8.4	8.4	7.8
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)