

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: P888430

Luminaire Tested: **DPT5-6FO36-37V60-F-XX-UDD\_4000K**

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: P888430  
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: DPT5-6FO36-37V60-F-XX-UDD\_4000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

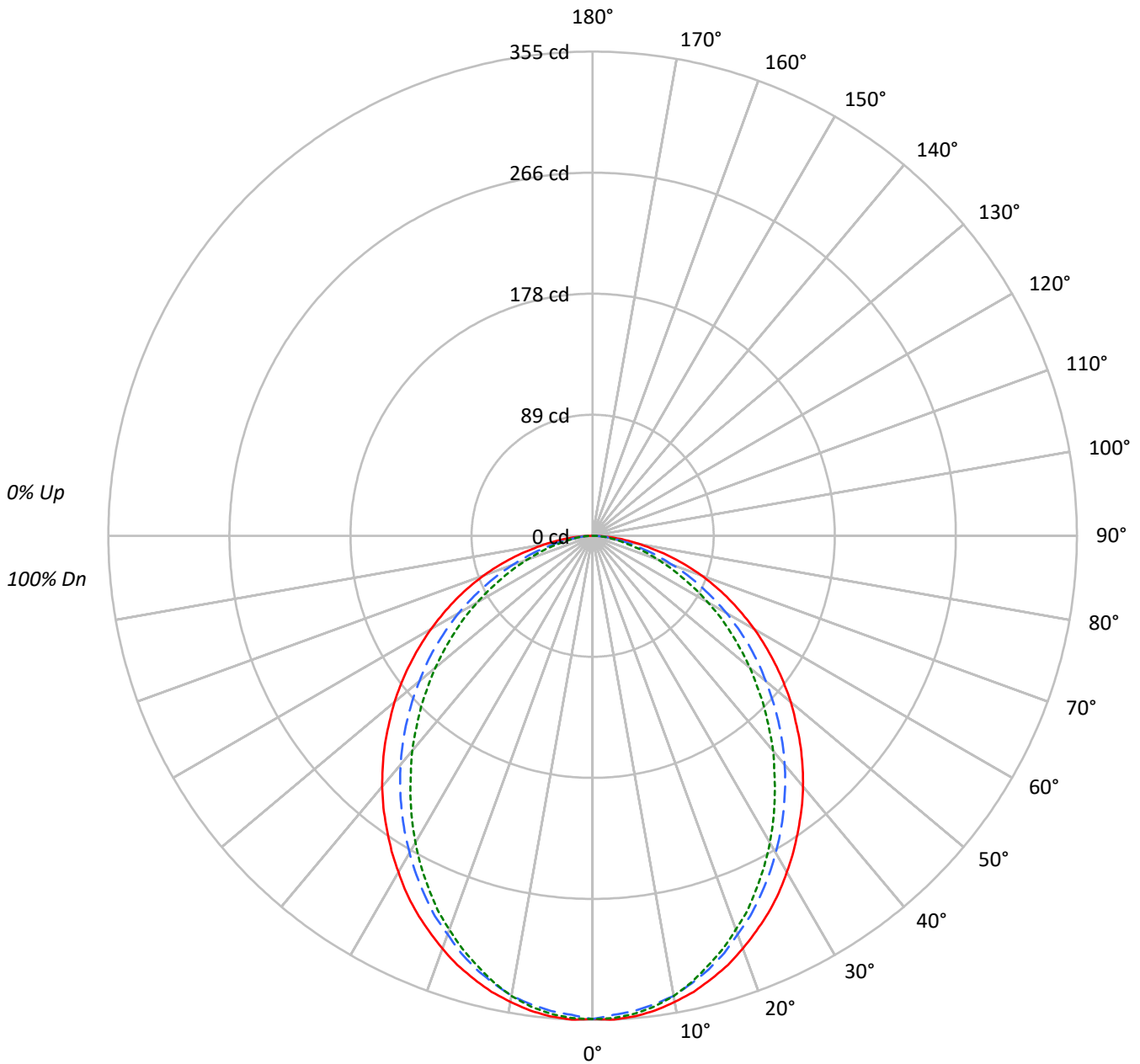
Lumens per Lamp: N/A  
Luminaire Lumens: 837.0 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')  
CIE Type: Direct

Input Watts (W): 8.7  
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°	3370	3370	3370
5°	3377	3339	3359
10°	3351	3308	3308
15°	3312	3240	3214
20°	3260	3147	3109
25°	3201	3055	2988
30°	3127	2948	2853
35°	3051	2836	2703
40°	2980	2720	2555
45°	2893	2590	2393
50°	2807	2450	2225
55°	2706	2316	2046
60°	2606	2153	1853
65°	2487	1965	1632
70°	2352	1724	1407
75°	2164	1455	1172
80°	1906	1145	986
85°	1604	938	873



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.3	4.0
10°-20°	93.2	11.1
20°-30°	135.1	16.1
30°-40°	153.9	18.4
40°-50°	150.0	17.9
50°-60°	126.3	15.1
60°-70°	88.5	10.6
70°-80°	45.4	5.4
80°-90°	11.3	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°	261.6	31.3
0°-40°	415.6	49.6
0°-60°	691.9	82.7
0°-90°	837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	837.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	354	354	354	354	354	
5°	354	353	350	352	352	34
15°	336	335	329	329	326	95
25°	305	301	291	288	285	140
35°	263	256	244	237	233	165
45°	215	207	193	182	178	166
55°	163	155	140	128	123	146
65°	110	101	87	76	72	109
75°	59	51	40	34	32	62
85°	15	10	9	8	8	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	354.3	354.3	354.3	354.3	354.3
2.5°	355.1	354.3	351.6	354.3	354.0
5°	353.7	352.7	349.7	352.3	351.8
7.5°	351.1	350.0	346.5	348.6	348.1
10°	347.0	346.2	342.5	343.3	342.5
12.5°	342.5	341.4	336.0	336.6	335.3
15°	336.4	334.7	329.1	328.8	326.4
17.5°	329.9	327.5	320.8	319.5	317.6
20°	322.1	319.5	310.9	309.6	307.2
22.5°	313.6	310.9	301.9	298.9	297.0
25°	305.0	301.0	291.1	287.6	284.7
27.5°	295.4	290.6	280.1	275.6	272.7
30°	284.7	279.6	268.4	262.3	259.8
32.5°	274.2	268.1	256.6	249.7	246.5
35°	262.8	256.4	244.3	236.6	232.8
37.5°	251.8	244.0	231.7	222.7	218.8
40°	240.0	232.0	219.1	209.0	205.8
42.5°	227.7	219.4	206.0	196.4	191.3
45°	215.1	207.4	192.6	182.0	177.9
47.5°	202.0	194.0	179.2	168.3	163.7
50°	189.7	180.9	165.6	154.4	150.4
52.5°	176.3	167.3	153.0	140.7	136.7
55°	163.2	154.7	139.7	127.7	123.4
57.5°	149.8	140.7	126.3	114.5	110.8
60°	137.0	127.7	113.2	101.4	97.4
62.5°	123.4	114.5	99.8	89.1	85.1
65°	110.5	101.4	87.3	76.5	72.5
67.5°	97.6	88.6	74.9	64.8	61.6
70°	84.6	75.4	62.0	53.8	50.6
72.5°	71.7	62.9	50.6	43.1	41.2
75°	58.9	50.8	39.6	33.8	31.9
77.5°	45.7	39.3	29.9	25.5	23.8
80°	34.8	28.4	20.9	18.5	18.0
82.5°	24.1	18.5	13.9	13.1	12.9
85°	14.7	9.9	8.6	8.3	8.0
87.5°	6.2	4.3	4.0	4.0	3.7
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)