

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: P888418

Luminaire Tested: **DPT5-6FO36-127V60-F-XX-UDD\_3500K**

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: P888418  
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: DPT5-6FO36-127V60-F-XX-UDD\_3500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

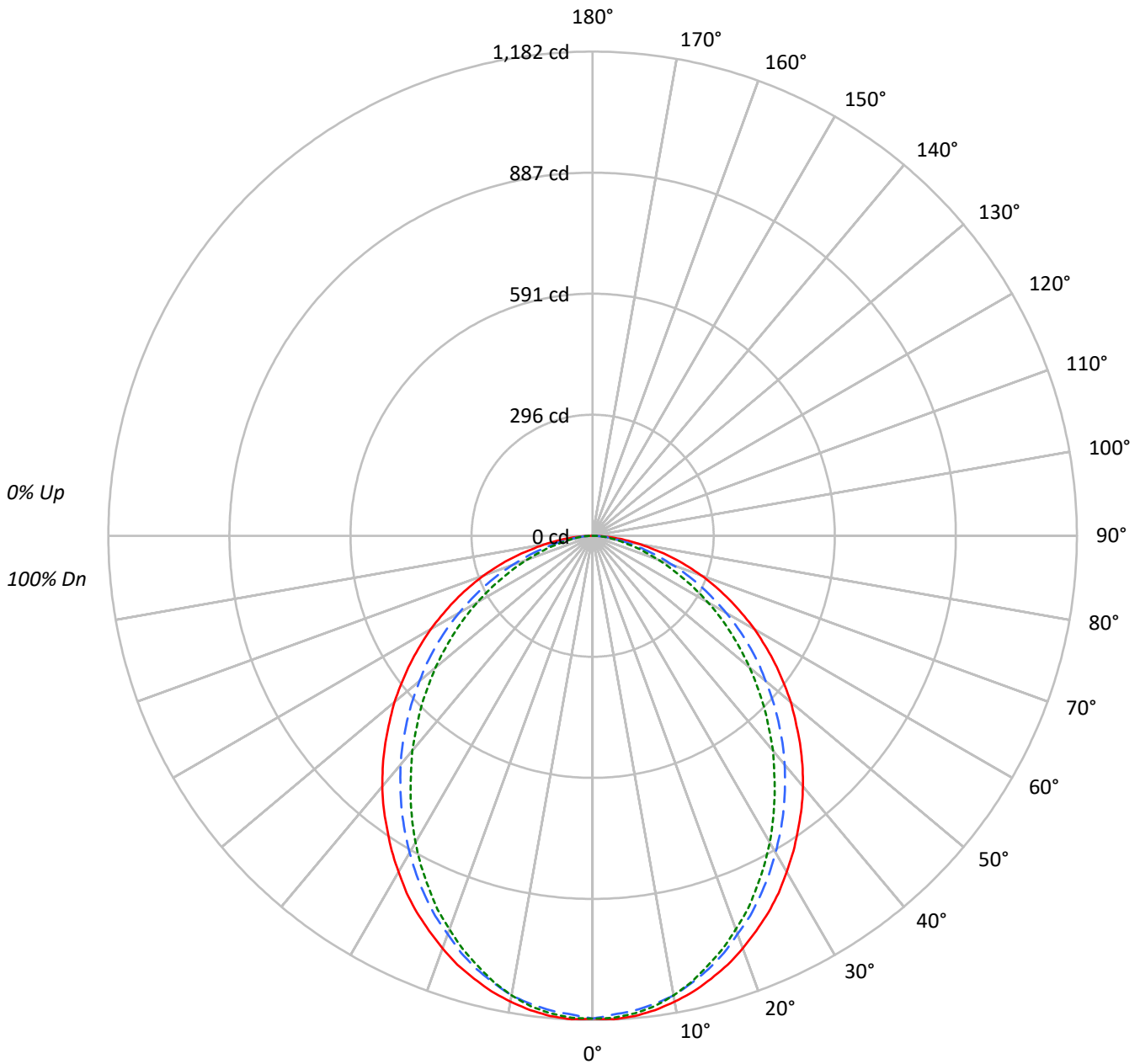
Lumens per Lamp: N/A  
Luminaire Lumens: 2785.0 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')  
CIE Type: Direct

Input Watts (W): 30  
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°	11211	11211	11211
5°	11237	11109	11176
10°	11151	11004	11004
15°	11020	10780	10695
20°	10848	10470	10345
25°	10649	10164	9941
30°	10403	9807	9495
35°	10151	9438	8992
40°	9916	9052	8501
45°	9627	8620	7964
50°	9339	8154	7404
55°	9007	7709	6808
60°	8670	7161	6163
65°	8277	6533	5426
70°	7825	5739	4680
75°	7199	4843	3895
80°	6342	3806	3275
85°	5336	3121	2924



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.9	4.0
10°-20°	310.0	11.1
20°-30°	449.5	16.1
30°-40°	512.2	18.4
40°-50°	499.2	17.9
50°-60°	420.1	15.1
60°-70°	294.4	10.6
70°-80°	150.9	5.4
80°-90°	37.7	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°	870.5	31.3
0°-40°	1382.7	49.6
0°-60°	2302.0	82.7
0°-90°	2785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2785.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1177	1174	1164	1172	1171	112
15°	1119	1114	1095	1094	1086	316
25°	1015	1002	969	957	947	467
35°	874	853	813	787	774	547
45°	716	690	641	605	592	552
55°	543	515	465	425	411	486
65°	368	337	290	254	241	364
75°	196	169	132	112	106	207
85°	49	33	29	28	27	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1178.8	1178.8	1178.8	1178.8	1178.8
2.5°	1181.5	1178.8	1169.9	1178.8	1177.8
5°	1177.0	1173.5	1163.6	1172.4	1170.6
7.5°	1168.1	1164.5	1152.9	1160.0	1158.4
10°	1154.7	1152.1	1139.5	1142.3	1139.5
12.5°	1139.5	1135.9	1118.1	1119.9	1115.6
15°	1119.2	1113.8	1094.9	1094.1	1086.2
17.5°	1097.7	1089.8	1067.4	1063.1	1056.8
20°	1071.8	1063.1	1034.5	1030.0	1022.1
22.5°	1043.4	1034.5	1004.4	994.5	988.1
25°	1014.8	1001.5	968.6	957.0	947.3
27.5°	983.0	966.8	932.1	917.1	907.3
30°	947.3	930.5	893.0	872.6	864.6
32.5°	912.4	892.1	853.8	830.7	820.1
35°	874.3	853.0	812.9	787.1	774.5
37.5°	837.8	811.9	770.9	740.9	728.1
40°	798.7	771.9	729.1	695.3	684.7
42.5°	757.5	730.0	685.4	653.5	636.5
45°	715.8	690.2	640.9	605.4	592.1
47.5°	672.0	645.6	596.4	560.0	544.8
50°	631.2	601.8	551.1	513.8	500.4
52.5°	586.6	556.6	509.2	468.2	454.8
55°	543.2	514.6	464.9	424.8	410.6
57.5°	498.6	468.2	420.3	381.0	368.6
60°	455.8	424.8	376.5	337.4	324.0
62.5°	410.6	381.0	332.1	296.4	283.1
65°	367.8	337.4	290.3	254.5	241.1
67.5°	324.8	294.8	249.2	215.5	205.0
70°	281.4	251.0	206.4	178.9	168.3
72.5°	238.6	209.2	168.3	143.3	137.2
75°	195.9	169.1	131.8	112.3	106.0
77.5°	152.1	130.8	99.6	84.7	79.3
80°	115.8	94.5	69.5	61.4	59.8
82.5°	80.1	61.4	46.4	43.4	42.8
85°	48.9	32.9	28.6	27.6	26.8
87.5°	20.6	14.2	13.4	13.4	12.4
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)