

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: P888422

Luminaire Tested: **DPT5-6FO36-127V60-F-XX-UDD\_6500K**

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: P888422  
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\_6500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

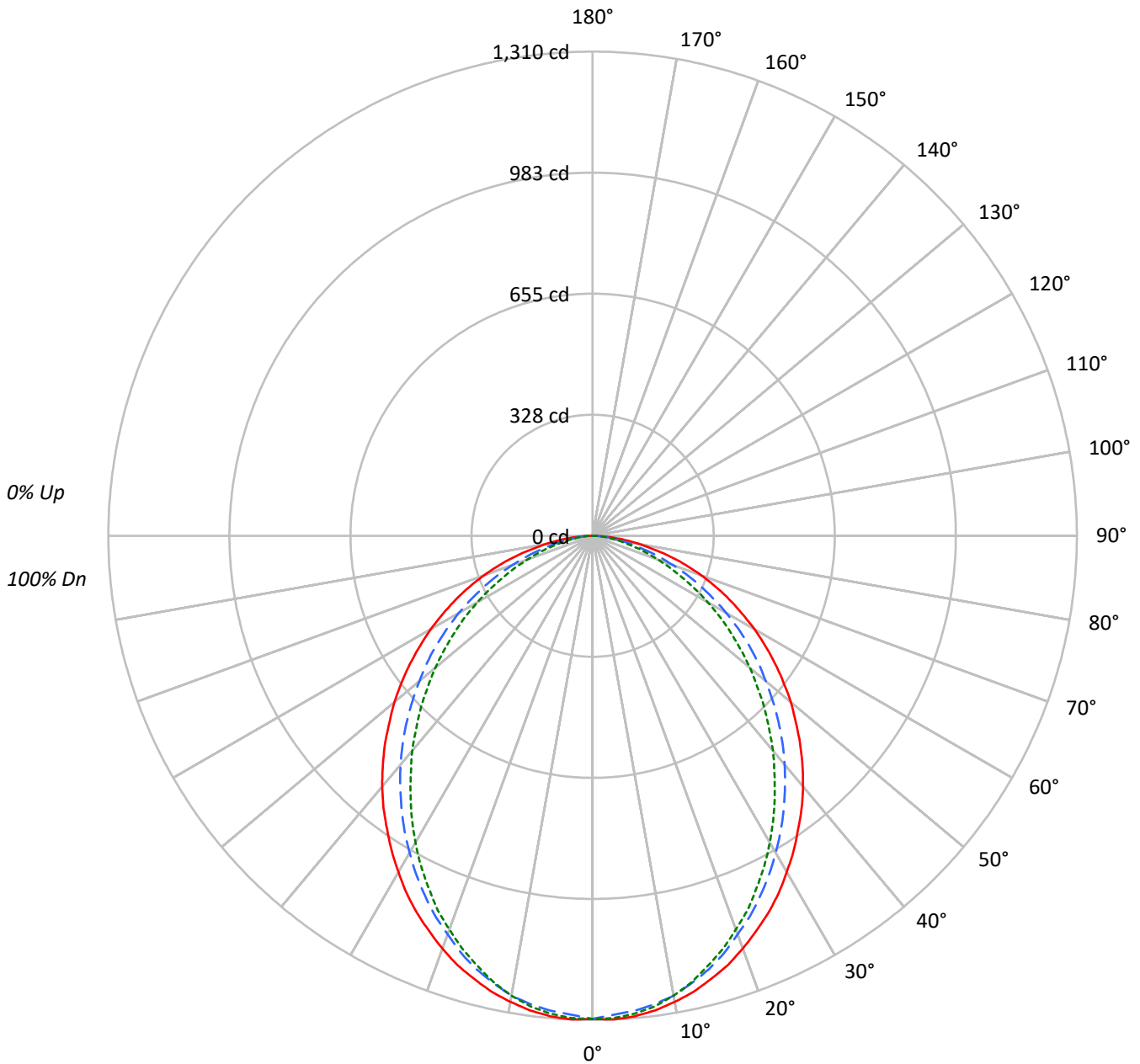
Lumens per Lamp: N/A  
Luminaire Lumens: 3088.0 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')  
CIE Type: Direct

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				20				
RC	80				70				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°	12431	12431	12431
5°	12460	12317	12391
10°	12365	12202	12202
15°	12219	11954	11859
20°	12028	11609	11470
25°	11809	11270	11023
30°	11535	10873	10527
35°	11255	10464	9971
40°	10995	10038	9426
45°	10674	9559	8830
50°	10356	9042	8209
55°	9987	8548	7548
60°	9613	7941	6834
65°	9177	7244	6018
70°	8676	6365	5189
75°	7981	5369	4321
80°	7032	4223	3631
85°	5914	3459	3241



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.0	4.0
10°-20°	343.8	11.1
20°-30°	498.5	16.1
30°-40°	567.9	18.4
40°-50°	553.5	17.9
50°-60°	465.8	15.1
60°-70°	326.4	10.6
70°-80°	167.4	5.4
80°-90°	41.7	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°	965.2	31.3
0°-40°	1533.1	49.6
0°-60°	2552.5	82.7
0°-90°	3088.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3088.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1307	1307	1307	1307	1307	
5°	1305	1301	1290	1300	1298	124
15°	1241	1235	1214	1213	1204	350
25°	1125	1110	1074	1061	1050	518
35°	969	946	901	873	859	607
45°	794	765	711	671	656	612
55°	602	571	516	471	455	538
65°	408	374	322	282	267	404
75°	217	188	146	124	118	230
85°	54	36	32	31	30	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1307.1	1307.1	1307.1	1307.1	1307.1
2.5°	1310.0	1307.1	1297.2	1307.1	1306.0
5°	1305.1	1301.2	1290.2	1299.9	1297.9
7.5°	1295.2	1291.2	1278.3	1286.2	1284.4
10°	1280.4	1277.4	1263.5	1266.6	1263.5
12.5°	1263.5	1259.5	1239.7	1241.7	1237.0
15°	1241.0	1234.9	1214.1	1213.1	1204.4
17.5°	1217.2	1208.4	1183.5	1178.7	1171.8
20°	1188.4	1178.7	1147.0	1142.1	1133.3
22.5°	1156.9	1147.0	1113.7	1102.7	1095.6
25°	1125.3	1110.4	1074.0	1061.2	1050.4
27.5°	1089.9	1072.0	1033.5	1016.8	1006.0
30°	1050.4	1031.7	990.1	967.6	958.6
32.5°	1011.7	989.2	946.7	921.1	909.4
35°	969.4	945.8	901.3	872.7	858.8
37.5°	929.0	900.2	854.8	821.5	807.4
40°	885.6	855.9	808.5	770.9	759.2
42.5°	840.0	809.4	759.9	724.6	705.7
45°	793.6	765.2	710.7	671.3	656.5
47.5°	745.1	715.8	661.2	620.9	604.1
50°	699.9	667.3	611.1	569.7	554.8
52.5°	650.4	617.1	564.5	519.1	504.3
55°	602.3	570.6	515.5	471.0	455.2
57.5°	552.8	519.1	466.0	422.5	408.7
60°	505.4	471.0	417.5	374.1	359.3
62.5°	455.2	422.5	368.2	328.7	313.9
65°	407.8	374.1	321.9	282.2	267.4
67.5°	360.2	326.9	276.3	239.0	227.2
70°	312.0	278.3	228.9	198.3	186.6
72.5°	264.6	232.0	186.6	158.9	152.2
75°	217.2	187.5	146.1	124.5	117.6
77.5°	168.7	145.0	110.4	93.9	87.9
80°	128.4	104.7	77.1	68.1	66.3
82.5°	88.8	68.1	51.5	48.2	47.4
85°	54.2	36.4	31.7	30.6	29.7
87.5°	22.9	15.7	14.8	14.8	13.7
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)