

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: P888142

Luminaire Tested: **DPT5-6FO36-127V60-A-XX-UDD\_3000K**

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: P888142  
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-A-XX-UDD\_3000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

**Summary**

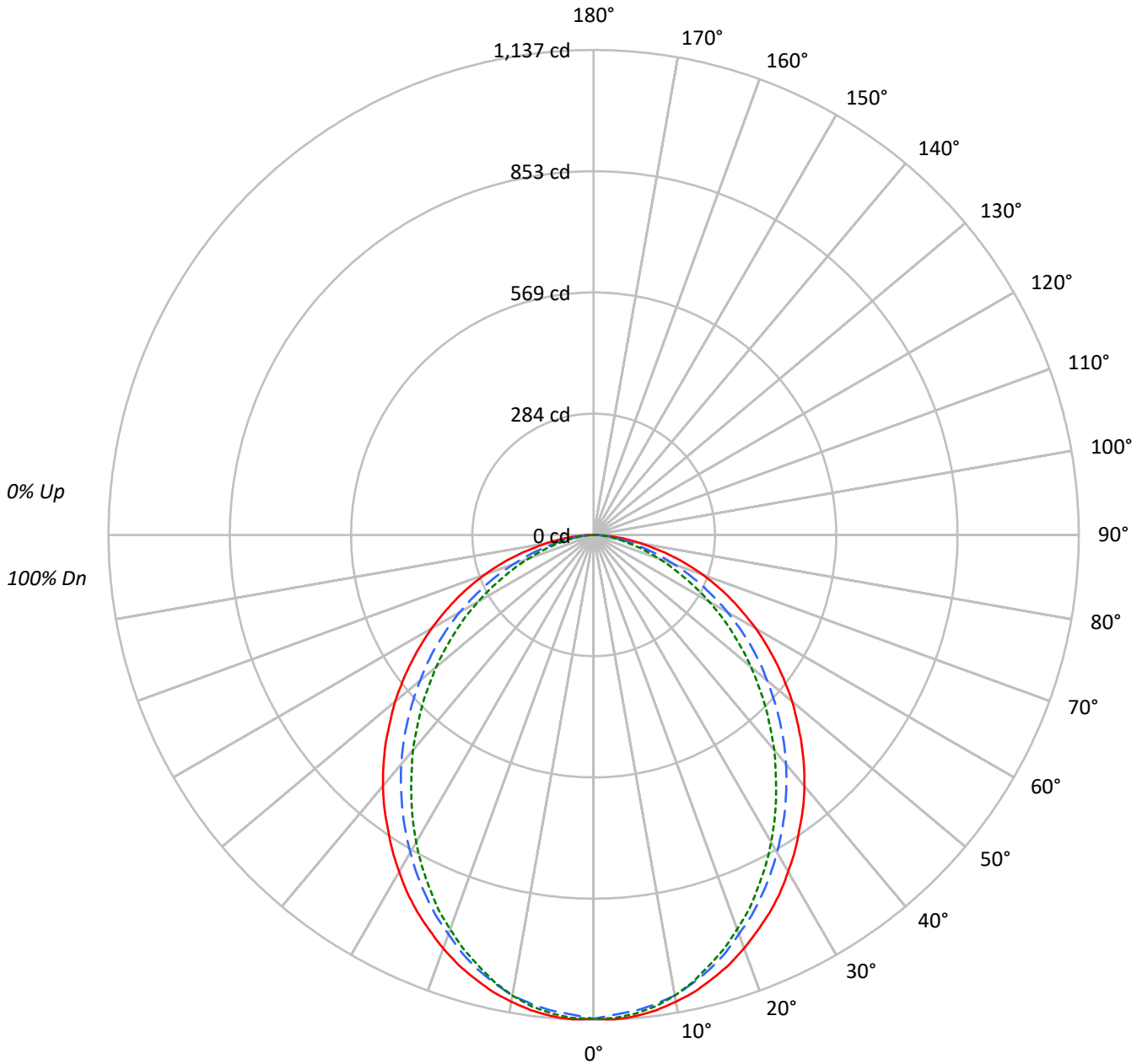
Lumens per Lamp: N/A  
Luminaire Lumens: 2680.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.9' x L: 0.39' x H: 0')  
CIE Type: Direct

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°	10789	10789	10789
5°	10813	10691	10754
10°	10731	10590	10590
15°	10604	10375	10291
20°	10439	10075	9955
25°	10248	9781	9566
30°	10011	9437	9137
35°	9768	9082	8653
40°	9541	8710	8180
45°	9264	8296	7662
50°	8987	7846	7124
55°	8667	7418	6551
60°	8343	6891	5931
65°	7964	6288	5221
70°	7530	5525	4502
75°	6927	4659	3748
80°	6101	3664	3149
85°	5129	3001	2804



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.8	4.0
10°-20°	298.3	11.1
20°-30°	432.6	16.1
30°-40°	492.9	18.4
40°-50°	480.4	17.9
50°-60°	404.3	15.1
60°-70°	283.3	10.6
70°-80°	145.2	5.4
80°-90°	36.2	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°	837.7	31.3
0°-40°	1330.6	49.6
0°-60°	2215.2	82.7
0°-90°	2680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2680.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1133	1129	1120	1128	1126	107
15°	1077	1072	1054	1053	1045	304
25°	977	964	932	921	912	449
35°	841	821	782	757	745	527
45°	689	664	617	583	570	531
55°	523	495	447	409	395	467
65°	354	325	279	245	232	350
75°	188	163	127	108	102	199
85°	47	32	28	26	26	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1134.4	1134.4	1134.4	1134.4	1134.4
2.5°	1136.9	1134.4	1125.8	1134.4	1133.4
5°	1132.6	1129.3	1119.8	1128.2	1126.4
7.5°	1124.1	1120.6	1109.4	1116.3	1114.7
10°	1111.2	1108.6	1096.6	1099.3	1096.6
12.5°	1096.6	1093.1	1075.9	1077.7	1073.5
15°	1077.0	1071.8	1053.7	1052.9	1045.2
17.5°	1056.4	1048.7	1027.1	1023.0	1016.9
20°	1031.4	1023.0	995.5	991.2	983.6
22.5°	1004.1	995.5	966.6	957.0	950.8
25°	976.6	963.7	932.1	921.0	911.6
27.5°	945.9	930.3	897.0	882.5	873.1
30°	911.6	895.4	859.3	839.7	832.0
32.5°	878.0	858.5	821.6	799.4	789.2
35°	841.3	820.8	782.2	757.4	745.3
37.5°	806.2	781.3	741.9	712.9	700.7
40°	768.5	742.8	701.6	669.1	658.9
42.5°	729.0	702.4	659.5	628.9	612.5
45°	688.8	664.1	616.8	582.6	569.7
47.5°	646.7	621.2	573.9	538.9	524.3
50°	607.4	579.1	530.3	494.4	481.5
52.5°	564.5	535.6	490.0	450.5	437.7
55°	522.7	495.2	447.4	408.7	395.1
57.5°	479.8	450.5	404.5	366.6	354.7
60°	438.6	408.7	362.3	324.7	311.8
62.5°	395.1	366.6	319.6	285.3	272.4
65°	353.9	324.7	279.4	244.9	232.0
67.5°	312.6	283.7	239.8	207.4	197.2
70°	270.8	241.6	198.7	172.1	161.9
72.5°	229.6	201.4	161.9	137.9	132.1
75°	188.5	162.7	126.8	108.1	102.0
77.5°	146.4	125.9	95.8	81.5	76.3
80°	111.4	90.9	66.9	59.1	57.5
82.5°	77.1	59.1	44.7	41.8	41.2
85°	47.0	31.6	27.5	26.5	25.7
87.5°	19.9	13.7	12.9	12.9	11.9
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)