

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: P888201

Luminaire Tested: **DPT5-6FO44-127V60-A-XX-UDD\_5000K**

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: P888201  
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: DPT5-6FO44-127V60-A-XX-UDD\_5000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

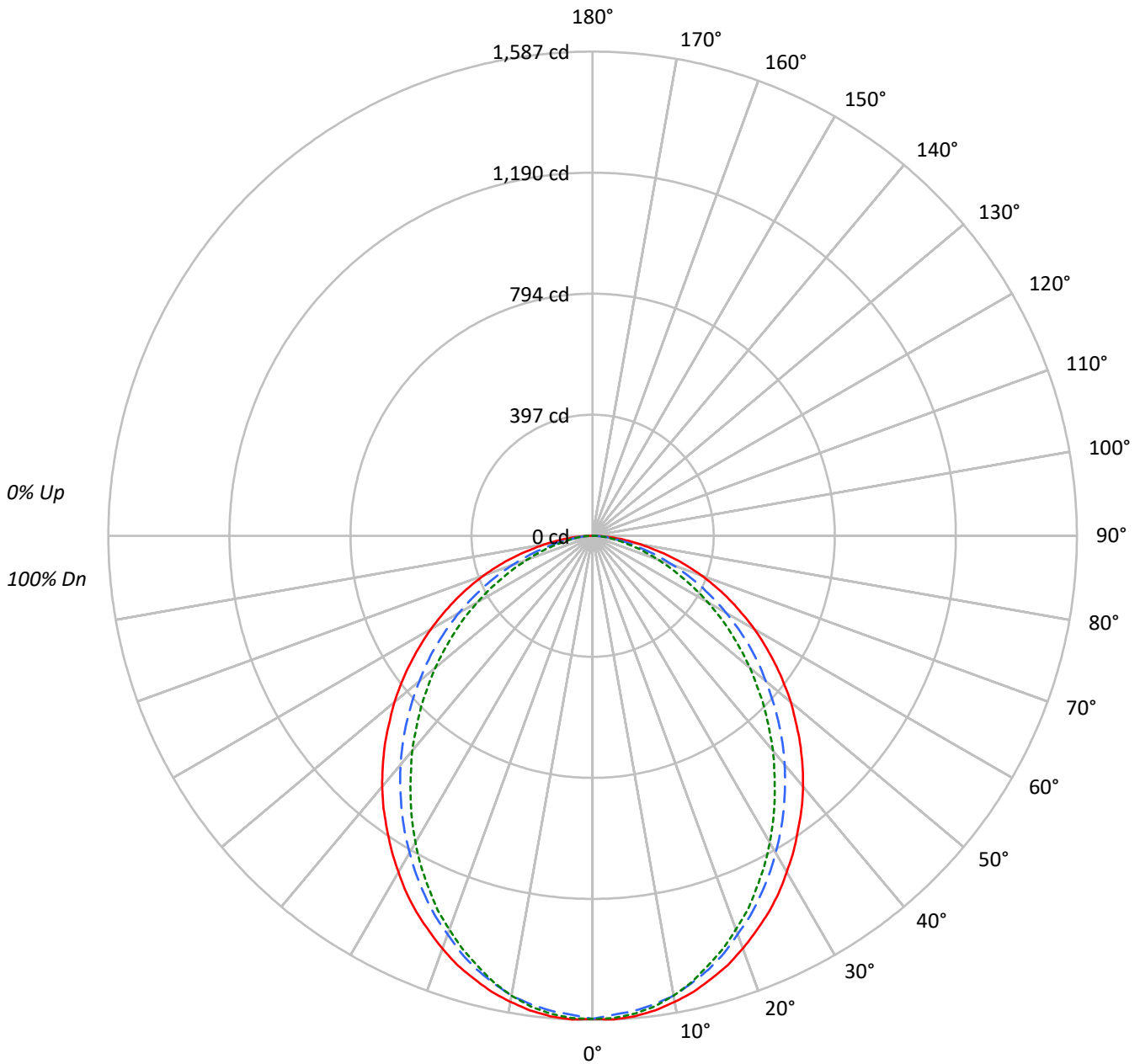
Lumens per Lamp: N/A  
Luminaire Lumens: 3741.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 37  
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°	12242	12242	12242
5°	12269	12130	12202
10°	12176	12016	12016
15°	12032	11772	11677
20°	11844	11432	11296
25°	11628	11098	10854
30°	11359	10708	10367
35°	11083	10305	9819
40°	10827	9884	9281
45°	10512	9413	8695
50°	10198	8904	8085
55°	9834	8417	7433
60°	9467	7820	6729
65°	9037	7134	5925
70°	8544	6268	5111
75°	7859	5287	4253
80°	6923	4158	3575
85°	5828	3406	3184



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.0	4.0
10°-20°	416.5	11.1
20°-30°	603.9	16.1
30°-40°	688.0	18.4
40°-50°	670.6	17.9
50°-60°	564.3	15.1
60°-70°	395.5	10.6
70°-80°	202.8	5.4
80°-90°	50.6	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°	1169.3	31.3
0°-40°	1857.3	49.6
0°-60°	3092.2	82.7
0°-90°	3741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3741.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1581	1576	1563	1575	1572	150
15°	1503	1496	1471	1470	1459	424
25°	1363	1345	1301	1286	1272	627
35°	1174	1146	1092	1057	1040	735
45°	962	927	861	813	795	741
55°	730	691	624	571	552	652
65°	494	453	390	342	324	489
75°	263	227	177	151	142	278
85°	66	44	38	37	36	76
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1583.5	1583.5	1583.5	1583.5	1583.5
2.5°	1587.0	1583.5	1571.5	1583.5	1582.2
5°	1581.0	1576.4	1563.1	1574.8	1572.4
7.5°	1569.1	1564.2	1548.7	1558.2	1556.0
10°	1551.1	1547.6	1530.7	1534.5	1530.7
12.5°	1530.7	1525.8	1501.9	1504.3	1498.5
15°	1503.4	1496.1	1470.8	1469.7	1459.0
17.5°	1474.6	1463.9	1433.7	1428.0	1419.6
20°	1439.7	1428.0	1389.6	1383.6	1373.0
22.5°	1401.6	1389.6	1349.2	1335.9	1327.3
25°	1363.2	1345.2	1301.1	1285.6	1272.5
27.5°	1320.4	1298.6	1252.1	1231.9	1218.8
30°	1272.5	1249.8	1199.5	1172.2	1161.3
32.5°	1225.7	1198.4	1146.9	1115.9	1101.7
35°	1174.4	1145.8	1091.9	1057.3	1040.4
37.5°	1125.4	1090.6	1035.5	995.2	978.1
40°	1072.8	1036.9	979.4	933.9	919.7
42.5°	1017.6	980.5	920.6	877.8	855.0
45°	961.5	927.1	861.0	813.3	795.3
47.5°	902.7	867.2	801.1	752.3	731.8
50°	847.9	808.4	740.3	690.1	672.2
52.5°	788.0	747.6	683.9	628.9	610.9
55°	729.6	691.3	624.5	570.6	551.5
57.5°	669.7	628.9	564.6	511.8	495.1
60°	612.3	570.6	505.8	453.2	435.2
62.5°	551.5	511.8	446.1	398.2	380.2
65°	494.0	453.2	390.0	341.9	323.9
67.5°	436.4	396.0	334.8	289.5	275.3
70°	378.0	337.2	277.3	240.3	226.1
72.5°	320.6	281.1	226.1	192.6	184.3
75°	263.1	227.2	177.0	150.9	142.4
77.5°	204.3	175.7	133.8	113.8	106.5
80°	155.5	126.9	93.4	82.5	80.3
82.5°	107.6	82.5	62.3	58.3	57.5
85°	65.7	44.1	38.4	37.0	35.9
87.5°	27.7	19.1	18.0	18.0	16.6
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)