

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: P888190

Luminaire Tested: **DPT5-6FO44-109V60-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: P888190  
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: DPT5-6FO44-109V60-A-XX-UDD\_5000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

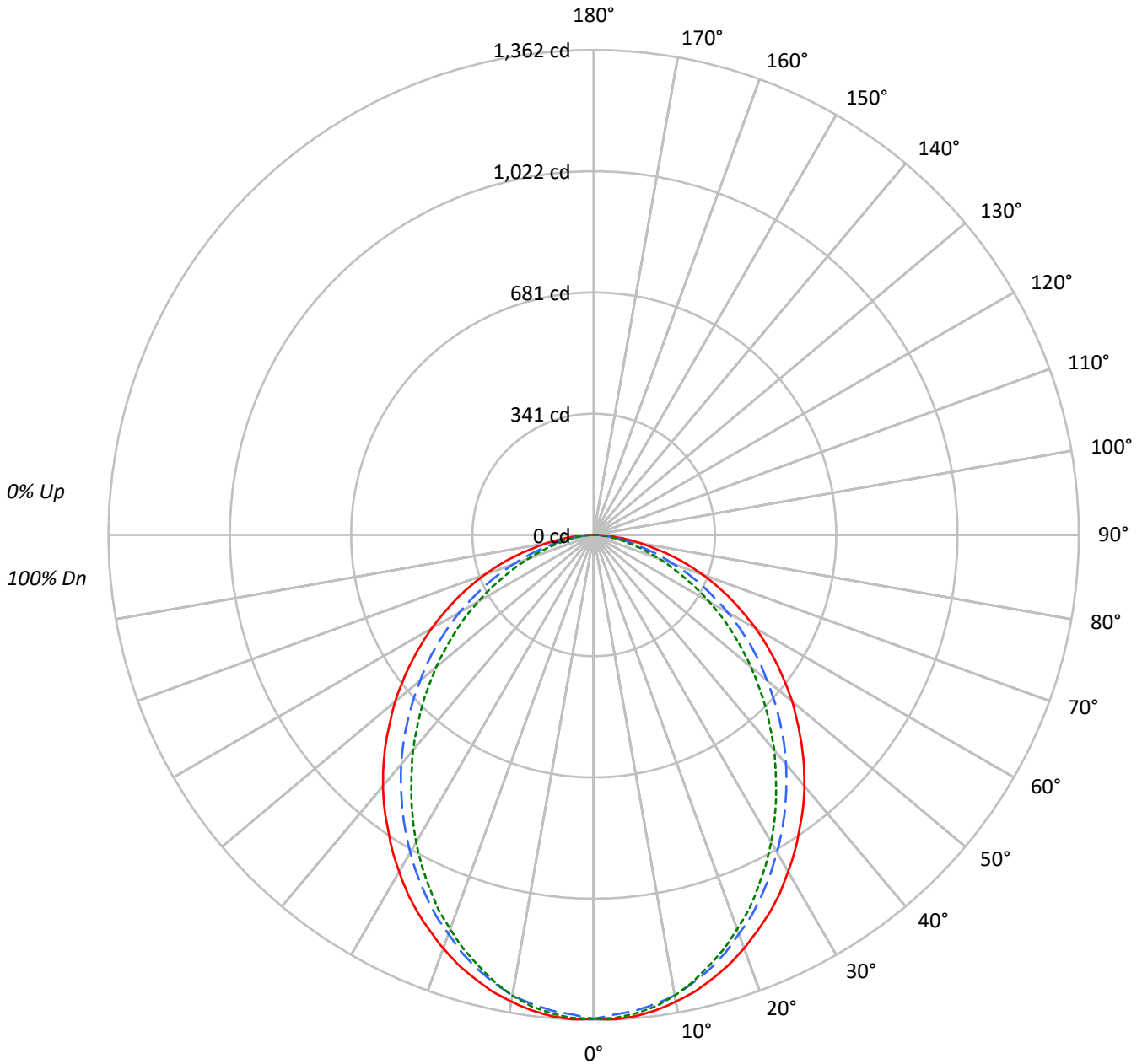
Lumens per Lamp: N/A  
Luminaire Lumens: 3210.0 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.8  
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°	10504	10504	10504
5°	10528	10408	10470
10°	10448	10310	10310
15°	10325	10100	10020
20°	10164	9810	9692
25°	9978	9523	9314
30°	9747	9187	8896
35°	9510	8842	8425
40°	9290	8481	7964
45°	9020	8077	7461
50°	8750	7640	6937
55°	8439	7222	6378
60°	8124	6710	5775
65°	7754	6121	5084
70°	7333	5377	4385
75°	6745	4537	3650
80°	5939	3566	3067
85°	4994	2918	2732



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.9	4.0
10°-20°	357.3	11.1
20°-30°	518.1	16.1
30°-40°	590.3	18.4
40°-50°	575.4	17.9
50°-60°	484.2	15.1
60°-70°	339.3	10.6
70°-80°	174.0	5.4
80°-90°	43.4	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°	1003.4	31.3
0°-40°	1593.7	49.6
0°-60°	2653.3	82.7
0°-90°	3210.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3210.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1359	1359	1359	1359	1359	
5°	1357	1353	1341	1351	1349	129
15°	1290	1284	1262	1261	1252	364
25°	1170	1154	1116	1103	1092	538
35°	1008	983	937	907	893	631
45°	825	796	739	698	682	636
55°	626	593	536	490	473	560
65°	424	389	335	293	278	420
75°	226	195	152	129	122	239
85°	56	38	33	32	31	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1358.7	1358.7	1358.7	1358.7	1358.7
2.5°	1361.8	1358.7	1348.4	1358.7	1357.6
5°	1356.6	1352.6	1341.2	1351.3	1349.2
7.5°	1346.4	1342.2	1328.8	1337.0	1335.1
10°	1330.9	1327.9	1313.4	1316.7	1313.4
12.5°	1313.4	1309.2	1288.7	1290.8	1285.8
15°	1290.0	1283.7	1262.0	1261.1	1251.9
17.5°	1265.3	1256.1	1230.2	1225.3	1218.1
20°	1235.4	1225.3	1192.4	1187.2	1178.1
22.5°	1202.6	1192.4	1157.7	1146.3	1138.9
25°	1169.7	1154.3	1116.4	1103.1	1091.9
27.5°	1133.0	1114.3	1074.3	1057.0	1045.8
30°	1091.9	1072.4	1029.2	1005.8	996.5
32.5°	1051.7	1028.3	984.1	957.5	945.3
35°	1007.7	983.2	936.9	907.2	892.7
37.5°	965.7	935.8	888.6	853.9	839.3
40°	920.5	889.7	840.4	801.4	789.2
42.5°	873.1	841.4	790.0	753.2	733.6
45°	825.0	795.5	738.8	697.8	682.4
47.5°	774.5	744.1	687.4	645.5	628.0
50°	727.5	693.6	635.2	592.2	576.8
52.5°	676.1	641.5	586.9	539.6	524.2
55°	626.1	593.1	535.8	489.6	473.2
57.5°	574.7	539.6	484.4	439.1	424.9
60°	525.4	489.6	434.0	388.9	373.5
62.5°	473.2	439.1	382.8	341.7	326.3
65°	423.9	388.9	334.6	293.3	277.9
67.5°	374.4	339.8	287.2	248.4	236.2
70°	324.4	289.3	237.9	206.2	194.0
72.5°	275.1	241.2	194.0	165.2	158.2
75°	225.8	194.9	151.9	129.4	122.2
77.5°	175.3	150.8	114.8	97.7	91.4
80°	133.4	108.9	80.1	70.8	68.9
82.5°	92.3	70.8	53.5	50.1	49.3
85°	56.3	37.9	32.9	31.8	30.8
87.5°	23.8	16.4	15.4	15.4	14.3
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)