

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: P888181

Luminaire Tested: **DPT5-6FO44-109S27-A-XX-UDD**

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: P888181
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: DPT5-6FO44-109S27-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

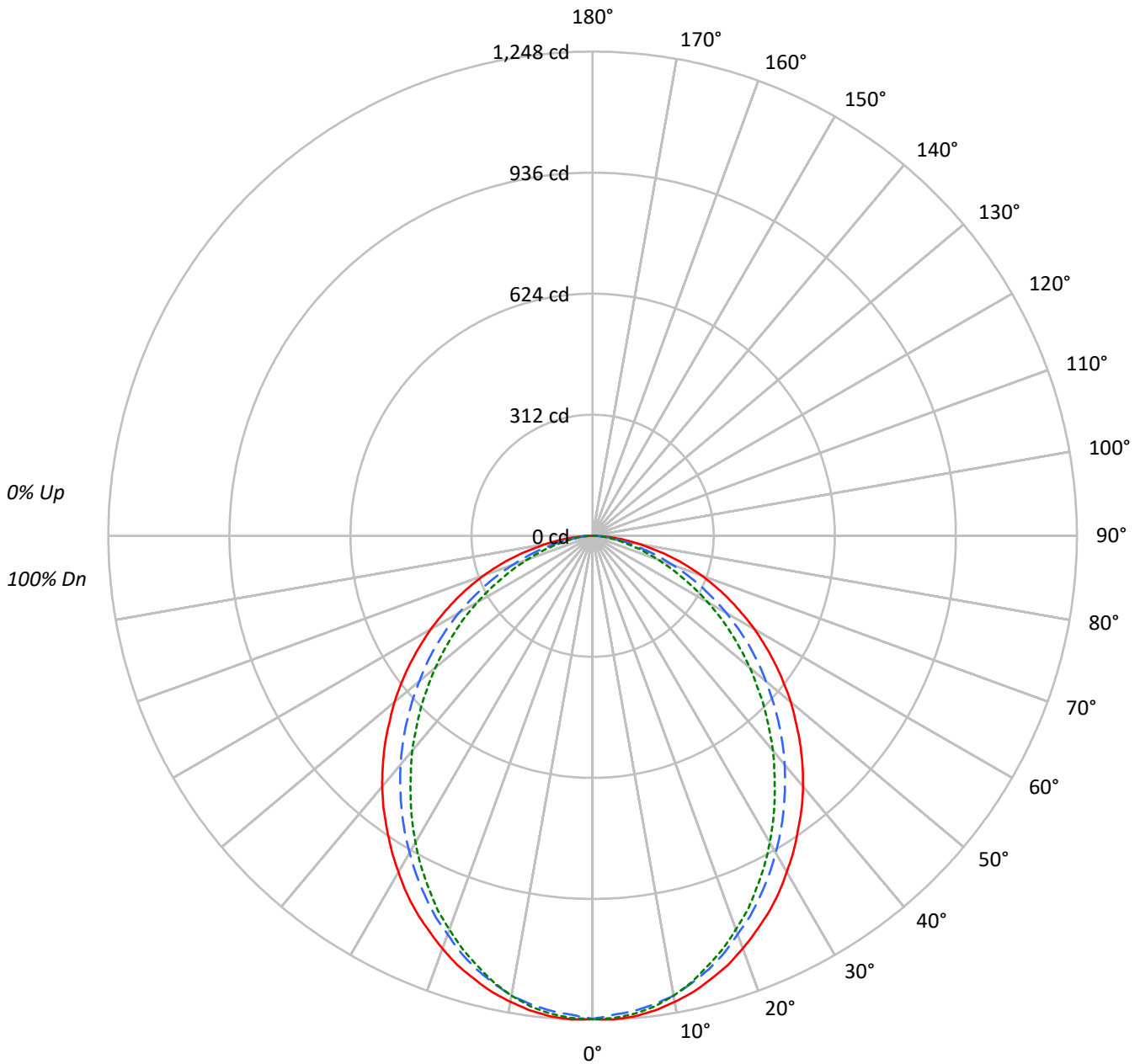
Lumens per Lamp: N/A
Luminaire Lumens: 2942.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P888181

CATALOG NUMBER: DPT5-6FO44-109S27-A-XX-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P888181

CATALOG NUMBER: DPT5-6FO44-109S27-A-XX-UDD

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°	9627	9627	9627
5°	9649	9539	9596
10°	9575	9450	9450
15°	9463	9258	9183
20°	9315	8990	8883
25°	9145	8728	8536
30°	8933	8421	8153
35°	8717	8104	7722
40°	8514	7773	7299
45°	8266	7403	6837
50°	8020	7002	6357
55°	7734	6619	5846
60°	7445	6151	5293
65°	7107	5610	4659
70°	6720	4930	4019
75°	6180	4158	3345
80°	5445	3268	2814
85°	4577	2679	2510



TEST NUMBER: P888181

CATALOG NUMBER: DPT5-6FO44-109S27-A-XX-UDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	4.0
10°-20°	327.5	11.1
20°-30°	474.9	16.1
30°-40°	541.0	18.4
40°-50°	527.3	17.9
50°-60°	443.8	15.1
60°-70°	311.0	10.6
70°-80°	159.4	5.4
80°-90°	39.8	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°	919.6	31.3
0°-40°	1460.6	49.6
0°-60°	2431.8	82.7
0°-90°	2942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1245	1245	1245	1245	1245	
5°	1243	1240	1229	1238	1237	118
15°	1182	1177	1157	1156	1147	333
25°	1072	1058	1023	1011	1001	493
35°	924	901	859	832	818	578
45°	756	729	677	640	625	583
55°	574	544	491	449	434	513
65°	388	356	307	269	255	385
75°	207	179	139	119	112	219
85°	52	35	30	29	28	60
90°	0	0	0	0	0	



TEST NUMBER: P888181

CATALOG NUMBER: DPT5-6FO44-109S27-A-XX-UDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1248.1	1245.3	1235.9	1245.3	1244.2
5°	1243.4	1239.7	1229.2	1238.5	1236.6
7.5°	1233.9	1230.1	1217.9	1225.4	1223.7
10°	1219.8	1217.0	1203.8	1206.7	1203.8
12.5°	1203.8	1199.9	1181.1	1183.0	1178.5
15°	1182.3	1176.6	1156.7	1155.8	1147.4
17.5°	1159.6	1151.3	1127.5	1123.0	1116.4
20°	1132.2	1123.0	1092.8	1088.1	1079.7
22.5°	1102.2	1092.8	1061.1	1050.6	1043.8
25°	1072.1	1057.9	1023.2	1011.0	1000.7
27.5°	1038.4	1021.3	984.6	968.8	958.5
30°	1000.7	982.9	943.3	921.8	913.3
32.5°	963.9	942.4	902.0	877.5	866.4
35°	923.6	901.1	858.7	831.5	818.2
37.5°	885.0	857.6	814.4	782.6	769.2
40°	843.7	815.4	770.2	734.5	723.3
42.5°	800.2	771.1	724.0	690.3	672.4
45°	756.1	729.1	677.1	639.6	625.4
47.5°	709.9	682.0	630.0	591.6	575.5
50°	666.8	635.7	582.2	542.7	528.6
52.5°	619.7	587.9	537.9	494.6	480.5
55°	573.8	543.6	491.1	448.7	433.7
57.5°	526.7	494.6	444.0	402.5	389.4
60°	481.5	448.7	397.8	356.4	342.3
62.5°	433.7	402.5	350.8	313.2	299.0
65°	388.5	356.4	306.7	268.8	254.7
67.5°	343.2	311.4	263.3	227.7	216.5
70°	297.3	265.2	218.1	188.9	177.8
72.5°	252.1	221.0	177.8	151.4	145.0
75°	206.9	178.6	139.2	118.6	112.0
77.5°	160.7	138.2	105.2	89.5	83.7
80°	122.3	99.8	73.4	64.9	63.2
82.5°	84.6	64.9	49.0	45.9	45.2
85°	51.6	34.7	30.2	29.1	28.3
87.5°	21.8	15.0	14.1	14.1	13.1
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)