

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: P888196

Luminaire Tested: **DPT5-6FO44-127V60-A-XX-UDD_2700K**

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: P888196
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_2700K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

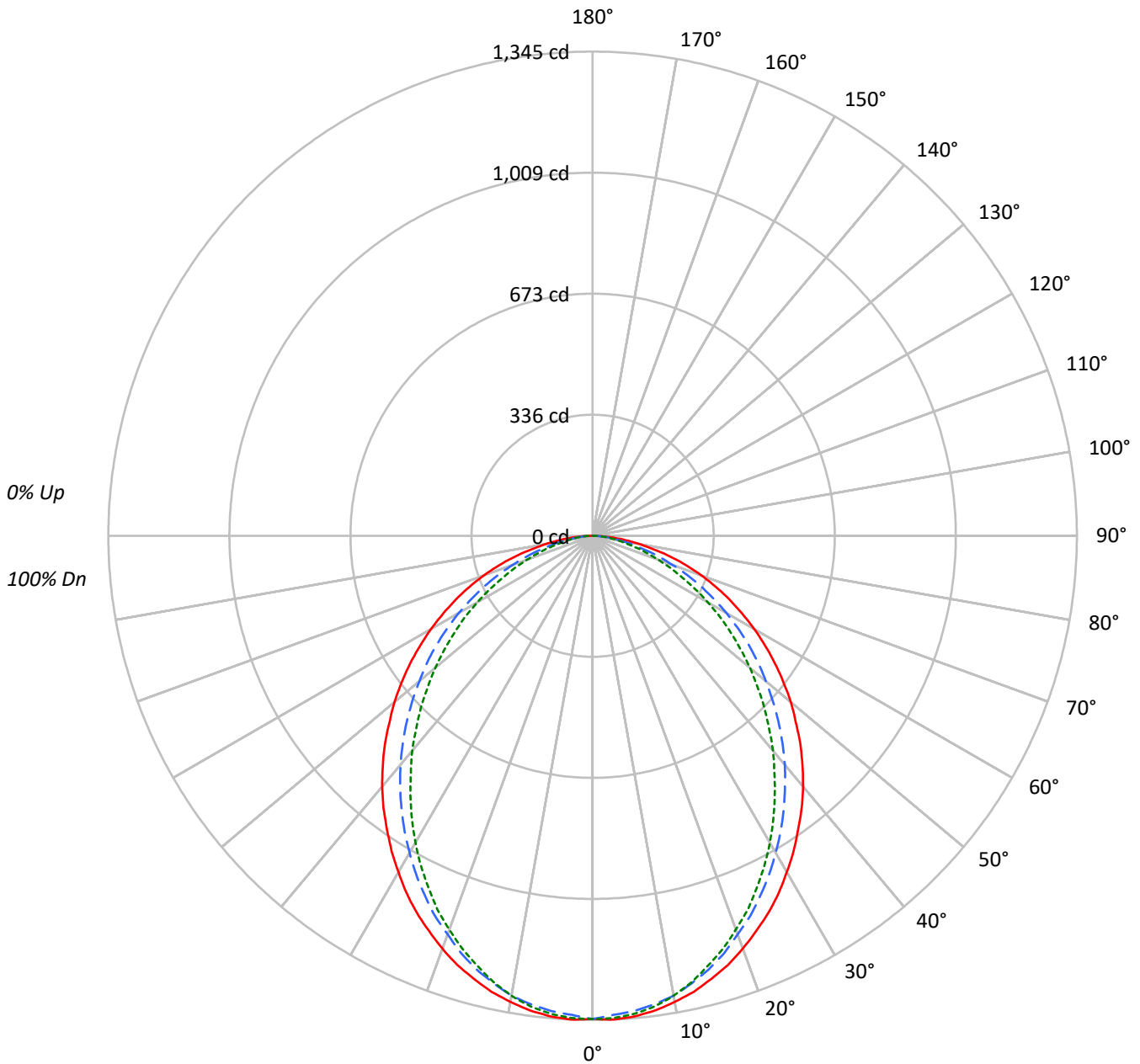
Lumens per Lamp: N/A
Luminaire Lumens: 3171.0 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 37
Input Voltage (V): NR
Input Current (A_{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

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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°	10376	10376	10376
5°	10400	10282	10343
10°	10321	10185	10185
15°	10199	9978	9898
20°	10040	9691	9575
25°	9856	9407	9200
30°	9628	9076	8787
35°	9395	8734	8323
40°	9178	8378	7868
45°	8910	7979	7370
50°	8644	7547	6853
55°	8336	7134	6301
60°	8025	6628	5704
65°	7661	6048	5021
70°	7242	5312	4331
75°	6661	4483	3605
80°	5868	3526	3032
85°	4941	2883	2705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	4.0
10°-20°	353.0	11.1
20°-30°	511.9	16.1
30°-40°	583.2	18.4
40°-50°	568.4	17.9
50°-60°	478.4	15.1
60°-70°	335.2	10.6
70°-80°	171.9	5.4
80°-90°	42.9	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°	991.2	31.3
0°-40°	1574.3	49.6
0°-60°	2621.1	82.7
0°-90°	3171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3171.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1340	1336	1325	1335	1333	127
15°	1274	1268	1247	1246	1237	359
25°	1156	1140	1103	1090	1079	532
35°	996	971	926	896	882	623
45°	815	786	730	689	674	628
55°	618	586	529	484	468	553
65°	419	384	331	290	274	415
75°	223	193	150	128	121	236
85°	56	37	32	31	30	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1342.2	1342.2	1342.2	1342.2	1342.2
2.5°	1345.2	1342.2	1332.1	1342.2	1341.1
5°	1340.2	1336.2	1324.9	1334.9	1332.8
7.5°	1330.0	1325.9	1312.7	1320.8	1318.9
10°	1314.8	1311.8	1297.5	1300.7	1297.5
12.5°	1297.5	1293.3	1273.0	1275.1	1270.2
15°	1274.3	1268.1	1246.7	1245.8	1236.7
17.5°	1249.9	1240.9	1215.3	1210.4	1203.3
20°	1220.4	1210.4	1177.9	1172.8	1163.8
22.5°	1188.0	1177.9	1143.7	1132.4	1125.0
25°	1155.5	1140.3	1102.8	1089.7	1078.6
27.5°	1119.2	1100.8	1061.3	1044.2	1033.1
30°	1078.6	1059.4	1016.7	993.6	984.4
32.5°	1038.9	1015.8	972.2	945.8	933.8
35°	995.5	971.2	925.5	896.2	881.9
37.5°	953.9	924.4	877.8	843.5	829.1
40°	909.4	878.9	830.2	791.6	779.6
42.5°	862.5	831.1	780.4	744.1	724.7
45°	815.0	785.8	729.8	689.3	674.1
47.5°	765.1	735.0	679.0	637.6	620.3
50°	718.7	685.2	627.5	585.0	569.8
52.5°	667.9	633.7	579.7	533.1	517.9
55°	618.5	585.9	529.3	483.6	467.5
57.5°	567.7	533.1	478.6	433.8	419.7
60°	519.0	483.6	428.7	384.2	368.9
62.5°	467.5	433.8	378.1	337.5	322.3
65°	418.8	384.2	330.6	289.8	274.5
67.5°	369.9	335.6	283.8	245.4	233.4
70°	320.4	285.8	235.0	203.6	191.6
72.5°	271.7	238.2	191.6	163.2	156.3
75°	223.0	192.6	150.1	127.9	120.7
77.5°	173.2	148.9	113.4	96.5	90.3
80°	131.8	107.6	79.2	70.0	68.1
82.5°	91.2	70.0	52.8	49.5	48.7
85°	55.7	37.4	32.5	31.4	30.5
87.5°	23.5	16.2	15.2	15.2	14.1
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)