

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: P888465

Luminaire Tested: **DPT5-6FO44-109V60-F-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: P888465
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-F-XX-UDD_5000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

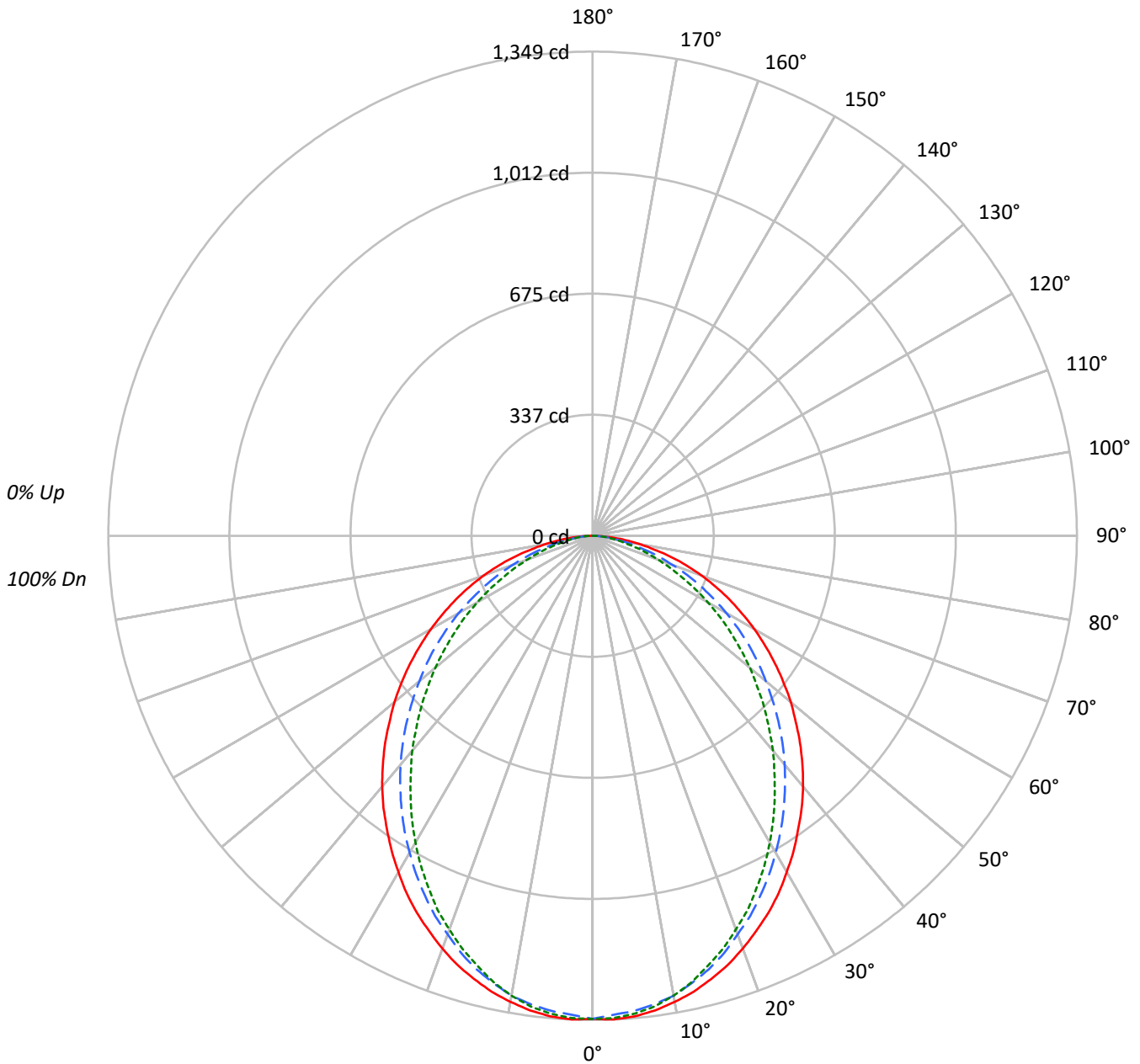
Lumens per Lamp: N/A
Luminaire Lumens: 3180.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

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

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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°	10406	10406	10406
5°	10430	10311	10372
10°	10350	10214	10214
15°	10228	10006	9926
20°	10068	9718	9602
25°	9885	9434	9227
30°	9656	9102	8812
35°	9422	8760	8347
40°	9203	8401	7890
45°	8936	8001	7391
50°	8668	7569	6872
55°	8359	7154	6319
60°	8048	6647	5721
65°	7683	6064	5036
70°	7262	5328	4344
75°	6679	4495	3617
80°	5886	3535	3041
85°	4950	2892	2705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	4.0
10°-20°	354.0	11.1
20°-30°	513.3	16.1
30°-40°	584.8	18.4
40°-50°	570.0	17.9
50°-60°	479.7	15.1
60°-70°	336.2	10.6
70°-80°	172.3	5.4
80°-90°	43.0	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°	994.0	31.3
0°-40°	1578.8	49.6
0°-60°	2628.5	82.7
0°-90°	3180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1344	1340	1329	1339	1337	127
15°	1278	1272	1250	1249	1240	360
25°	1159	1144	1106	1093	1082	533
35°	998	974	928	899	884	625
45°	817	788	732	691	676	630
55°	620	588	531	485	469	554
65°	420	385	332	291	275	416
75°	224	193	150	128	121	236
85°	56	38	33	32	30	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.0	1346.0	1346.0	1346.0	1346.0
2.5°	1349.0	1346.0	1335.8	1346.0	1344.9
5°	1344.0	1340.0	1328.7	1338.7	1336.6
7.5°	1333.8	1329.6	1316.4	1324.5	1322.6
10°	1318.5	1315.5	1301.1	1304.4	1301.1
12.5°	1301.1	1297.0	1276.6	1278.7	1273.8
15°	1278.0	1271.7	1250.2	1249.3	1240.2
17.5°	1253.4	1244.4	1218.7	1213.8	1206.7
20°	1223.8	1213.8	1181.2	1176.1	1167.1
22.5°	1191.4	1181.2	1146.9	1135.6	1128.2
25°	1158.8	1143.5	1106.0	1092.8	1081.7
27.5°	1122.4	1103.9	1064.3	1047.1	1036.0
30°	1081.7	1062.4	1019.6	996.4	987.2
32.5°	1041.9	1018.7	974.9	948.5	936.5
35°	998.3	974.0	928.2	898.7	884.4
37.5°	956.6	927.0	880.3	845.9	831.4
40°	911.9	881.4	832.5	793.9	781.8
42.5°	865.0	833.5	782.6	746.2	726.8
45°	817.3	788.0	731.8	691.3	676.0
47.5°	767.3	737.1	680.9	639.4	622.1
50°	720.7	687.2	629.3	586.6	571.4
52.5°	669.8	635.5	581.4	534.6	519.3
55°	620.2	587.6	530.8	485.0	468.8
57.5°	569.3	534.6	479.9	435.0	420.9
60°	520.5	485.0	429.9	385.3	370.0
62.5°	468.8	435.0	379.2	338.5	323.2
65°	420.0	385.3	331.5	290.6	275.3
67.5°	370.9	336.6	284.6	246.1	234.0
70°	321.3	286.6	235.7	204.2	192.2
72.5°	272.5	238.9	192.2	163.7	156.7
75°	223.6	193.1	150.5	128.2	121.1
77.5°	173.7	149.3	113.7	96.7	90.5
80°	132.2	107.9	79.4	70.1	68.3
82.5°	91.5	70.1	53.0	49.6	48.8
85°	55.8	37.5	32.6	31.5	30.5
87.5°	23.6	16.2	15.3	15.3	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)