

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: P888242

Luminaire Tested: **DPT5-6FO55-109V60-A-XX-UDD_3500K**

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: P888242
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: DPT5-6FO55-109V60-A-XX-UDD_3500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

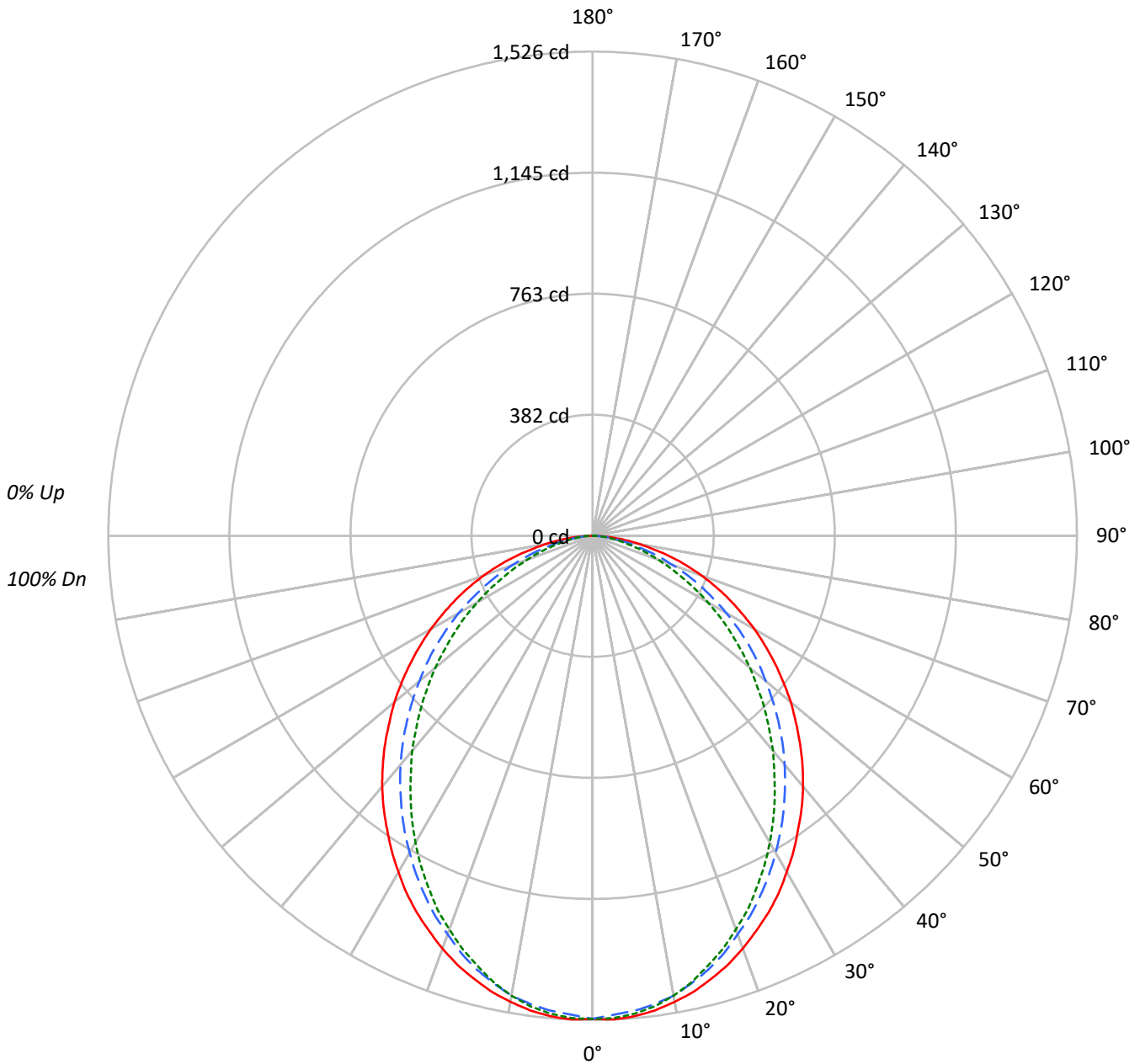
Lumens per Lamp: N/A
Luminaire Lumens: 3597.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 38.6
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°	9723	9723	9723
5°	9746	9635	9692
10°	9671	9544	9544
15°	9557	9350	9275
20°	9408	9080	8972
25°	9236	8815	8621
30°	9022	8505	8234
35°	8804	8185	7799
40°	8599	7851	7372
45°	8349	7476	6906
50°	8099	7072	6421
55°	7811	6685	5904
60°	7519	6211	5345
65°	7178	5667	4706
70°	6787	4978	4059
75°	6243	4200	3378
80°	5498	3303	2839
85°	4624	2704	2535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	4.0
10°-20°	400.4	11.1
20°-30°	580.6	16.1
30°-40°	661.5	18.4
40°-50°	644.7	17.9
50°-60°	542.6	15.1
60°-70°	380.2	10.6
70°-80°	194.9	5.4
80°-90°	48.6	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°	1124.3	31.3
0°-40°	1785.8	49.6
0°-60°	2973.2	82.7
0°-90°	3597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3597.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1522	1522	1522	1522	1522	
5°	1520	1516	1503	1514	1512	144
15°	1446	1438	1414	1413	1403	408
25°	1311	1294	1251	1236	1224	603
35°	1129	1102	1050	1017	1000	707
45°	924	891	828	782	765	713
55°	702	665	600	549	530	627
65°	475	436	375	329	311	470
75°	253	218	170	145	137	267
85°	63	42	37	36	35	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1522.5	1522.5	1522.5	1522.5	1522.5
2.5°	1526.0	1522.5	1511.0	1522.5	1521.3
5°	1520.2	1515.7	1502.9	1514.2	1511.9
7.5°	1508.7	1504.0	1489.0	1498.2	1496.1
10°	1491.4	1488.0	1471.8	1475.4	1471.8
12.5°	1471.8	1467.1	1444.0	1446.4	1440.8
15°	1445.5	1438.5	1414.2	1413.1	1402.9
17.5°	1417.8	1407.6	1378.6	1373.0	1364.9
20°	1384.3	1373.0	1336.1	1330.4	1320.1
22.5°	1347.6	1336.1	1297.3	1284.5	1276.2
25°	1310.7	1293.5	1251.0	1236.1	1223.5
27.5°	1269.6	1248.7	1203.9	1184.5	1171.9
30°	1223.5	1201.7	1153.3	1127.1	1116.6
32.5°	1178.5	1152.2	1102.8	1072.9	1059.2
35°	1129.2	1101.7	1049.9	1016.6	1000.4
37.5°	1082.1	1048.6	995.7	956.9	940.4
40°	1031.5	997.0	941.7	898.0	884.3
42.5°	978.4	942.8	885.2	844.0	822.1
45°	924.4	891.4	827.8	782.0	764.7
47.5°	867.9	833.8	770.2	723.3	703.7
50°	815.2	777.3	711.8	663.6	646.3
52.5°	757.6	718.8	657.6	604.7	587.4
55°	701.5	664.6	600.4	548.6	530.3
57.5°	644.0	604.7	542.8	492.1	476.1
60°	588.7	548.6	486.3	435.8	418.5
62.5°	530.3	492.1	428.9	382.9	365.6
65°	475.0	435.8	375.0	328.7	311.4
67.5°	419.6	380.7	321.9	278.4	264.7
70°	363.5	324.2	266.6	231.0	217.4
72.5°	308.2	270.3	217.4	185.1	177.3
75°	253.0	218.4	170.2	145.0	136.9
77.5°	196.4	168.9	128.6	109.4	102.4
80°	149.5	122.0	89.8	79.3	77.2
82.5°	103.5	79.3	59.9	56.1	55.2
85°	63.1	42.4	36.9	35.6	34.6
87.5°	26.7	18.3	17.3	17.3	16.0
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)