

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: P888283

Luminaire Tested: **DPT5-6FO55-85S40-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: P888283  
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: DPT5-6FO55-85S40-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

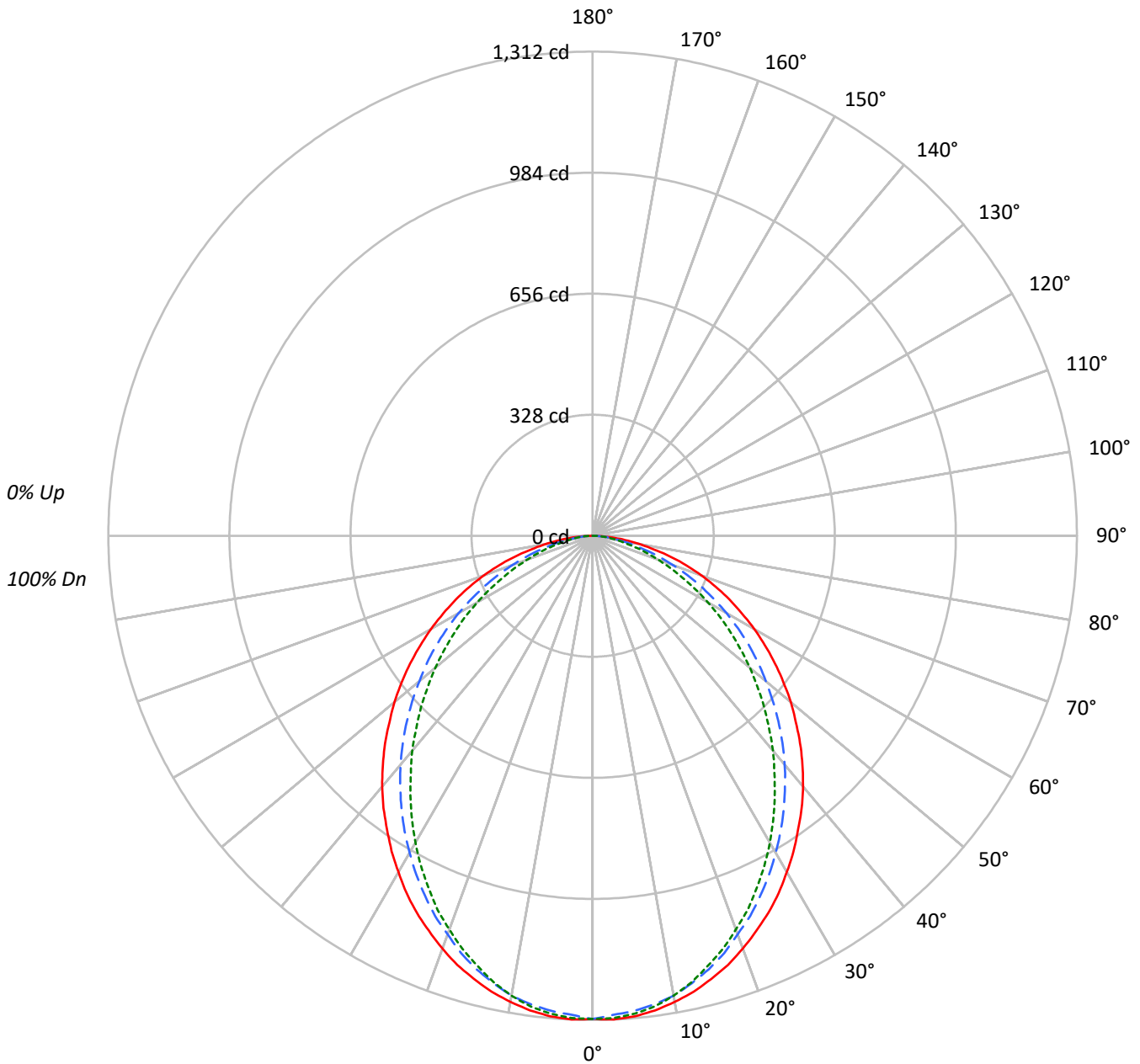
Lumens per Lamp: N/A  
Luminaire Lumens: 3093.0 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.1  
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°	8361	8361	8361
5°	8380	8285	8334
10°	8316	8207	8207
15°	8218	8040	7976
20°	8090	7808	7714
25°	7942	7580	7414
30°	7758	7313	7081
35°	7570	7038	6706
40°	7395	6751	6339
45°	7179	6429	5938
50°	6965	6081	5521
55°	6716	5749	5077
60°	6465	5342	4597
65°	6173	4872	4047
70°	5835	4282	3490
75°	5367	3612	2907
80°	4730	2839	2442
85°	3979	2323	2176



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.2	4.0
10°-20°	344.3	11.1
20°-30°	499.3	16.1
30°-40°	568.8	18.4
40°-50°	554.4	17.9
50°-60°	466.6	15.1
60°-70°	327.0	10.6
70°-80°	167.6	5.4
80°-90°	41.8	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°	966.8	31.3
0°-40°	1535.6	49.6
0°-60°	2556.6	82.7
0°-90°	3093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3093.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1309	1309	1309	1309	1309	
5°	1307	1303	1292	1302	1300	124
15°	1243	1237	1216	1215	1206	350
25°	1127	1112	1076	1063	1052	519
35°	971	947	903	874	860	608
45°	795	766	712	672	658	613
55°	603	572	516	472	456	539
65°	408	375	322	283	268	404
75°	218	188	146	125	118	230
85°	54	36	32	31	30	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1309.2	1309.2	1309.2	1309.2	1309.2
2.5°	1312.1	1309.2	1299.3	1309.2	1308.1
5°	1307.2	1303.3	1292.3	1302.1	1300.0
7.5°	1297.3	1293.2	1280.4	1288.3	1286.5
10°	1282.4	1279.5	1265.6	1268.7	1265.6
12.5°	1265.6	1261.5	1241.7	1243.7	1239.0
15°	1243.0	1236.9	1216.0	1215.1	1206.3
17.5°	1219.1	1210.3	1185.4	1180.6	1173.7
20°	1190.4	1180.6	1148.9	1143.9	1135.1
22.5°	1158.8	1148.9	1115.5	1104.5	1097.4
25°	1127.1	1112.2	1075.7	1062.9	1052.1
27.5°	1091.7	1073.7	1035.2	1018.5	1007.7
30°	1052.1	1033.4	991.7	969.2	960.2
32.5°	1013.4	990.8	948.2	922.6	910.8
35°	971.0	947.3	902.8	874.1	860.2
37.5°	930.5	901.7	856.2	822.8	808.7
40°	887.0	857.3	809.8	772.2	760.4
42.5°	841.3	810.7	761.2	725.8	706.9
45°	794.9	766.5	711.8	672.4	657.5
47.5°	746.3	717.0	662.3	622.0	605.1
50°	701.0	668.4	612.1	570.6	555.7
52.5°	651.5	618.1	565.5	520.0	505.1
55°	603.2	571.5	516.3	471.7	456.0
57.5°	553.7	520.0	466.8	423.1	409.4
60°	506.2	471.7	418.2	374.7	359.9
62.5°	456.0	423.1	368.8	329.2	314.4
65°	408.5	374.7	322.4	282.6	267.8
67.5°	360.8	327.4	276.8	239.4	227.6
70°	312.5	278.8	229.3	198.6	186.9
72.5°	265.0	232.4	186.9	159.2	152.4
75°	217.5	187.8	146.4	124.7	117.8
77.5°	168.9	145.3	110.6	94.1	88.0
80°	128.6	104.9	77.2	68.2	66.4
82.5°	89.0	68.2	51.5	48.2	47.5
85°	54.3	36.5	31.7	30.6	29.7
87.5°	22.9	15.8	14.9	14.9	13.8
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)