

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: P888140

Luminaire Tested: **DPT5-6FO36-127S40-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: P888140  
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: DPT5-6FO36-127S40-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

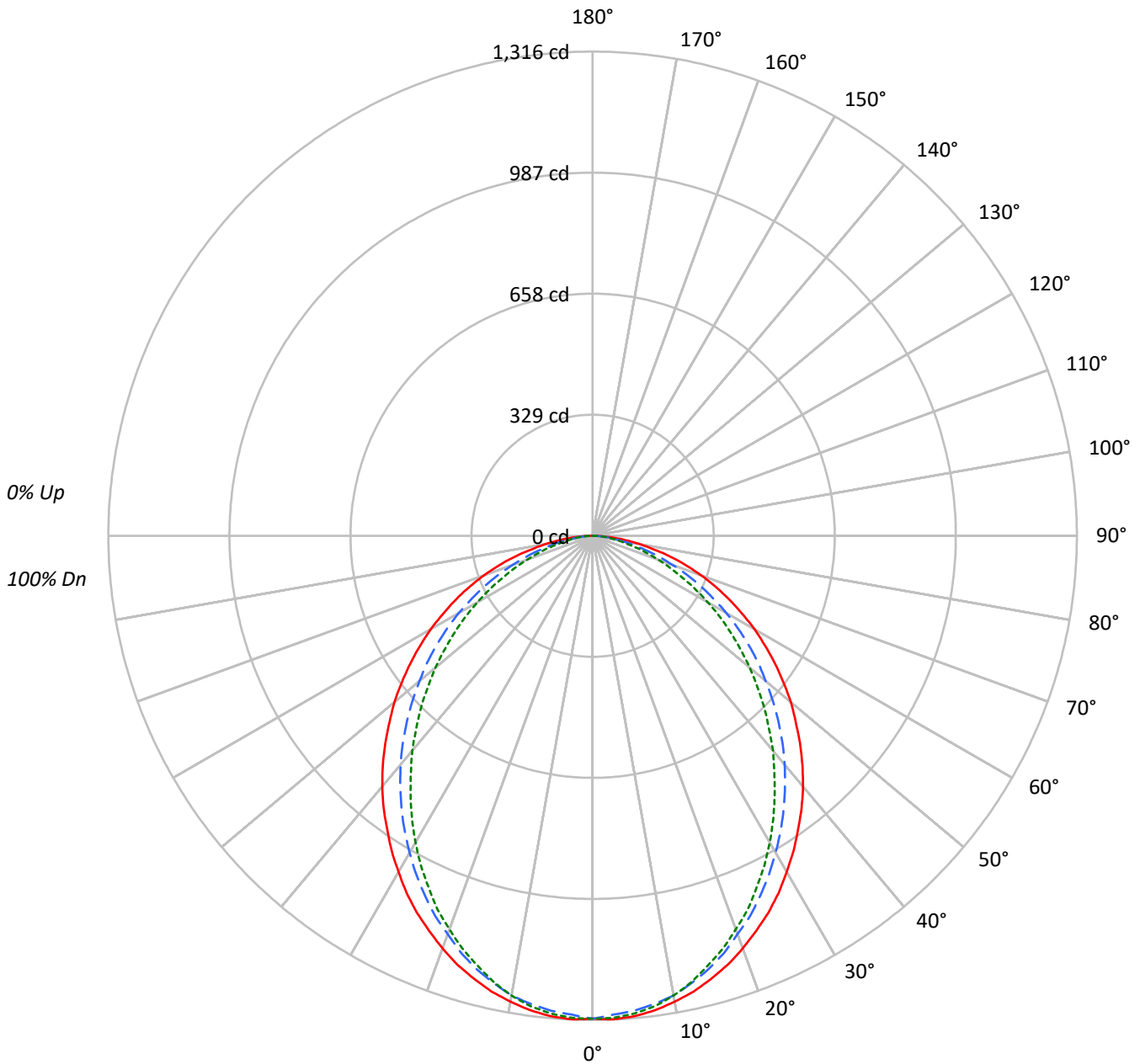
Lumens per Lamp: N/A  
Luminaire Lumens: 3101.0 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.9' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 30  
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°	12484	12484	12484
5°	12512	12370	12443
10°	12416	12253	12253
15°	12270	12004	11908
20°	12078	11658	11519
25°	11858	11317	11069
30°	11584	10919	10572
35°	11303	10508	10013
40°	11041	10080	9465
45°	10720	9599	8866
50°	10398	9079	8244
55°	10028	8582	7579
60°	9653	7976	6863
65°	9215	7276	6042
70°	8712	6393	5211
75°	8014	5391	4340
80°	7060	4239	3648
85°	5936	3470	3252



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.5	4.0
10°-20°	345.2	11.1
20°-30°	500.6	16.1
30°-40°	570.3	18.4
40°-50°	555.8	17.9
50°-60°	467.8	15.1
60°-70°	327.8	10.6
70°-80°	168.1	5.4
80°-90°	41.9	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°	969.3	31.3
0°-40°	1539.6	49.6
0°-60°	2563.2	82.7
0°-90°	3101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3101.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1313	1313	1313	1313	1313	
5°	1311	1307	1296	1305	1303	124
15°	1246	1240	1219	1218	1209	351
25°	1130	1115	1078	1066	1055	520
35°	974	950	905	876	862	610
45°	797	768	714	674	659	615
55°	605	573	518	473	457	541
65°	410	376	323	283	268	405
75°	218	188	147	125	118	231
85°	54	37	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°	1312.6	1312.6	1312.6	1312.6	1312.6
2.5°	1315.5	1312.6	1302.7	1312.6	1311.5
5°	1310.6	1306.7	1295.7	1305.4	1303.4
7.5°	1300.6	1296.6	1283.7	1291.6	1289.8
10°	1285.7	1282.8	1268.8	1272.0	1268.8
12.5°	1268.8	1264.8	1244.9	1246.9	1242.2
15°	1246.2	1240.1	1219.2	1218.3	1209.4
17.5°	1222.3	1213.5	1188.5	1183.7	1176.7
20°	1193.4	1183.7	1151.9	1146.9	1138.1
22.5°	1161.8	1151.9	1118.4	1107.4	1100.2
25°	1130.0	1115.1	1078.5	1065.6	1054.8
27.5°	1094.5	1076.5	1037.9	1021.1	1010.3
30°	1054.8	1036.0	994.3	971.7	962.7
32.5°	1016.0	993.4	950.7	925.0	913.2
35°	973.5	949.8	905.1	876.4	862.4
37.5°	932.9	904.0	858.4	824.9	810.8
40°	889.3	859.5	811.9	774.2	762.4
42.5°	843.5	812.8	763.1	727.6	708.7
45°	797.0	768.5	713.7	674.1	659.2
47.5°	748.2	718.8	664.0	623.6	606.6
50°	702.8	670.1	613.6	572.1	557.2
52.5°	653.2	619.7	566.9	521.3	506.4
55°	604.8	573.0	517.6	473.0	457.1
57.5°	555.2	521.3	468.0	424.2	410.4
60°	507.5	473.0	419.3	375.7	360.8
62.5°	457.1	424.2	369.8	330.1	315.2
65°	409.5	375.7	323.3	283.4	268.5
67.5°	361.7	328.2	277.5	240.0	228.2
70°	313.3	279.5	229.9	199.2	187.4
72.5°	265.7	233.0	187.4	159.6	152.8
75°	218.1	188.3	146.7	125.0	118.1
77.5°	169.4	145.6	110.9	94.3	88.3
80°	128.9	105.2	77.4	68.4	66.6
82.5°	89.2	68.4	51.7	48.4	47.6
85°	54.4	36.6	31.8	30.7	29.8
87.5°	23.0	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)