

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: P888138

Luminaire Tested: **DPT5-6FO36-127S30-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: P888138  
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: DPT5-6FO36-127S30-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

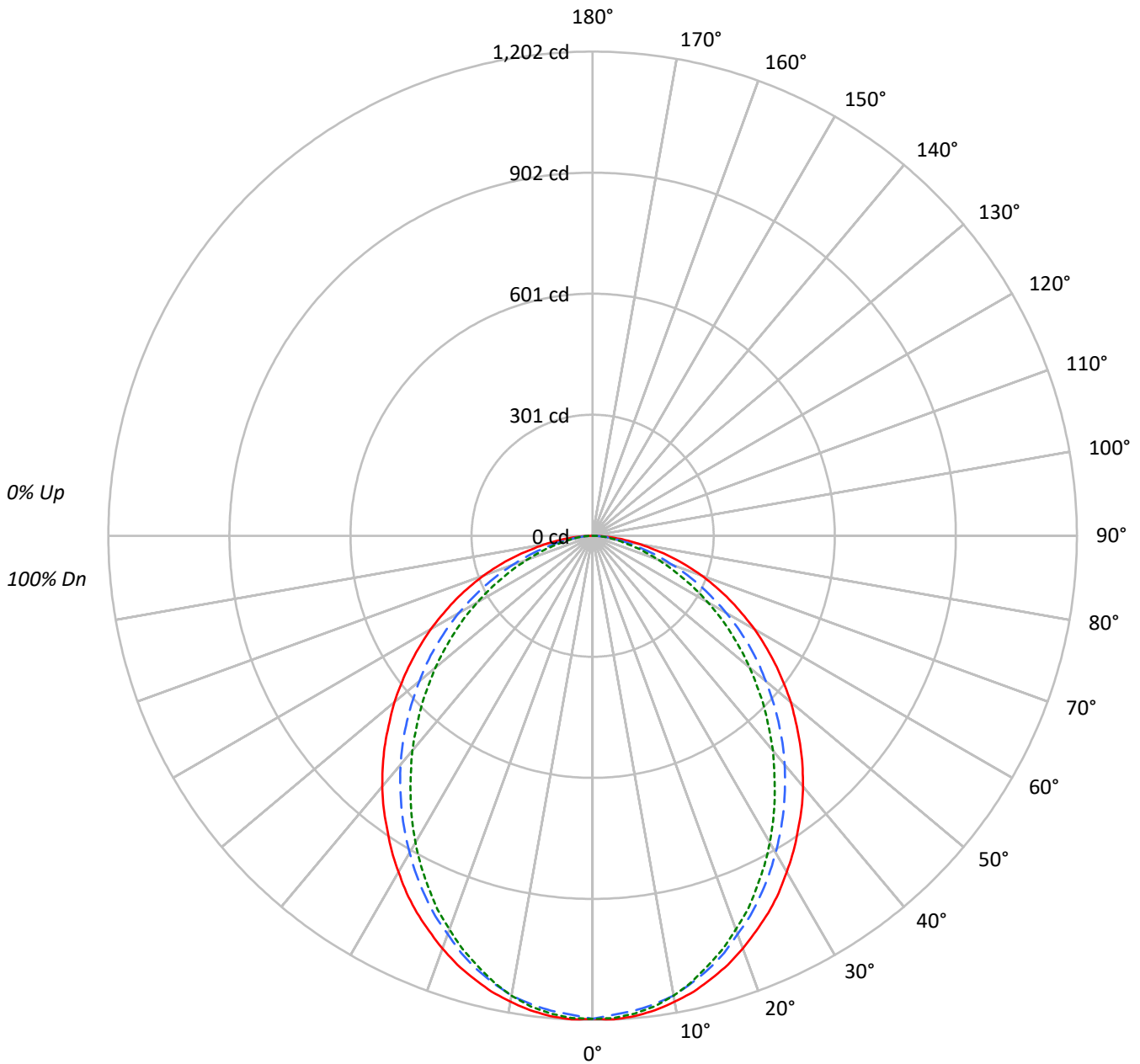
Lumens per Lamp: N/A  
Luminaire Lumens: 2833.0 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.9' x L: 0.39' x H: 0')  
CIE Type: Direct

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°	11405	11405	11405
5°	11430	11301	11368
10°	11343	11195	11195
15°	11210	10967	10879
20°	11035	10650	10523
25°	10833	10339	10112
30°	10582	9976	9659
35°	10326	9601	9148
40°	10086	9208	8647
45°	9793	8769	8101
50°	9500	8295	7531
55°	9161	7841	6924
60°	8820	7285	6269
65°	8419	6645	5520
70°	7961	5839	4761
75°	7320	4928	3965
80°	6452	3872	3330
85°	5423	3175	2968



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.9	4.0
10°-20°	315.4	11.1
20°-30°	457.3	16.1
30°-40°	521.0	18.4
40°-50°	507.8	17.9
50°-60°	427.4	15.1
60°-70°	299.5	10.6
70°-80°	153.5	5.4
80°-90°	38.3	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°	885.5	31.3
0°-40°	1406.5	49.6
0°-60°	2341.7	82.7
0°-90°	2833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2833.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1197	1194	1184	1193	1191	114
15°	1138	1133	1114	1113	1105	321
25°	1032	1019	985	974	964	475
35°	889	868	827	801	788	557
45°	728	702	652	616	602	562
55°	552	524	473	432	418	494
65°	374	343	295	259	245	370
75°	199	172	134	114	108	211
85°	50	33	29	28	27	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1199.2	1199.2	1199.2	1199.2	1199.2
2.5°	1201.8	1199.2	1190.1	1199.2	1198.1
5°	1197.3	1193.8	1183.7	1192.6	1190.8
7.5°	1188.2	1184.5	1172.8	1180.0	1178.3
10°	1174.6	1171.9	1159.2	1162.0	1159.2
12.5°	1159.2	1155.5	1137.3	1139.2	1134.8
15°	1138.5	1133.0	1113.8	1113.0	1104.9
17.5°	1116.7	1108.6	1085.8	1081.4	1075.0
20°	1090.3	1081.4	1052.3	1047.8	1039.7
22.5°	1061.4	1052.3	1021.7	1011.7	1005.1
25°	1032.3	1018.7	985.3	973.5	963.6
27.5°	999.9	983.4	948.2	932.9	923.0
30°	963.6	946.5	908.4	887.7	879.5
32.5°	928.2	907.5	868.5	845.0	834.3
35°	889.4	867.7	826.9	800.7	787.9
37.5°	852.2	825.9	784.2	753.6	740.7
40°	812.4	785.2	741.7	707.3	696.5
42.5°	770.6	742.5	697.2	664.8	647.5
45°	728.1	702.1	652.0	615.9	602.3
47.5°	683.6	656.7	606.6	569.7	554.2
50°	642.1	612.2	560.6	522.6	509.0
52.5°	596.7	566.1	517.9	476.3	462.7
55°	552.5	523.5	472.9	432.1	417.6
57.5°	507.2	476.3	427.5	387.6	375.0
60°	463.7	432.1	383.0	343.2	329.6
62.5°	417.6	387.6	337.8	301.6	287.9
65°	374.1	343.2	295.3	258.9	245.3
67.5°	330.4	299.9	253.5	219.2	208.5
70°	286.3	255.4	210.0	181.9	171.2
72.5°	242.8	212.9	171.2	145.8	139.6
75°	199.2	172.0	134.1	114.2	107.9
77.5°	154.7	133.1	101.3	86.2	80.6
80°	117.8	96.1	70.7	62.5	60.8
82.5°	81.5	62.5	47.2	44.2	43.5
85°	49.7	33.4	29.1	28.1	27.2
87.5°	21.0	14.4	13.6	13.6	12.6
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)