

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: P888416

Luminaire Tested: **DPT5-6FO36-127V60-F-XX-UDD\_2700K**

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: P888416  
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: DPT5-6FO36-127V60-F-XX-UDD\_2700K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

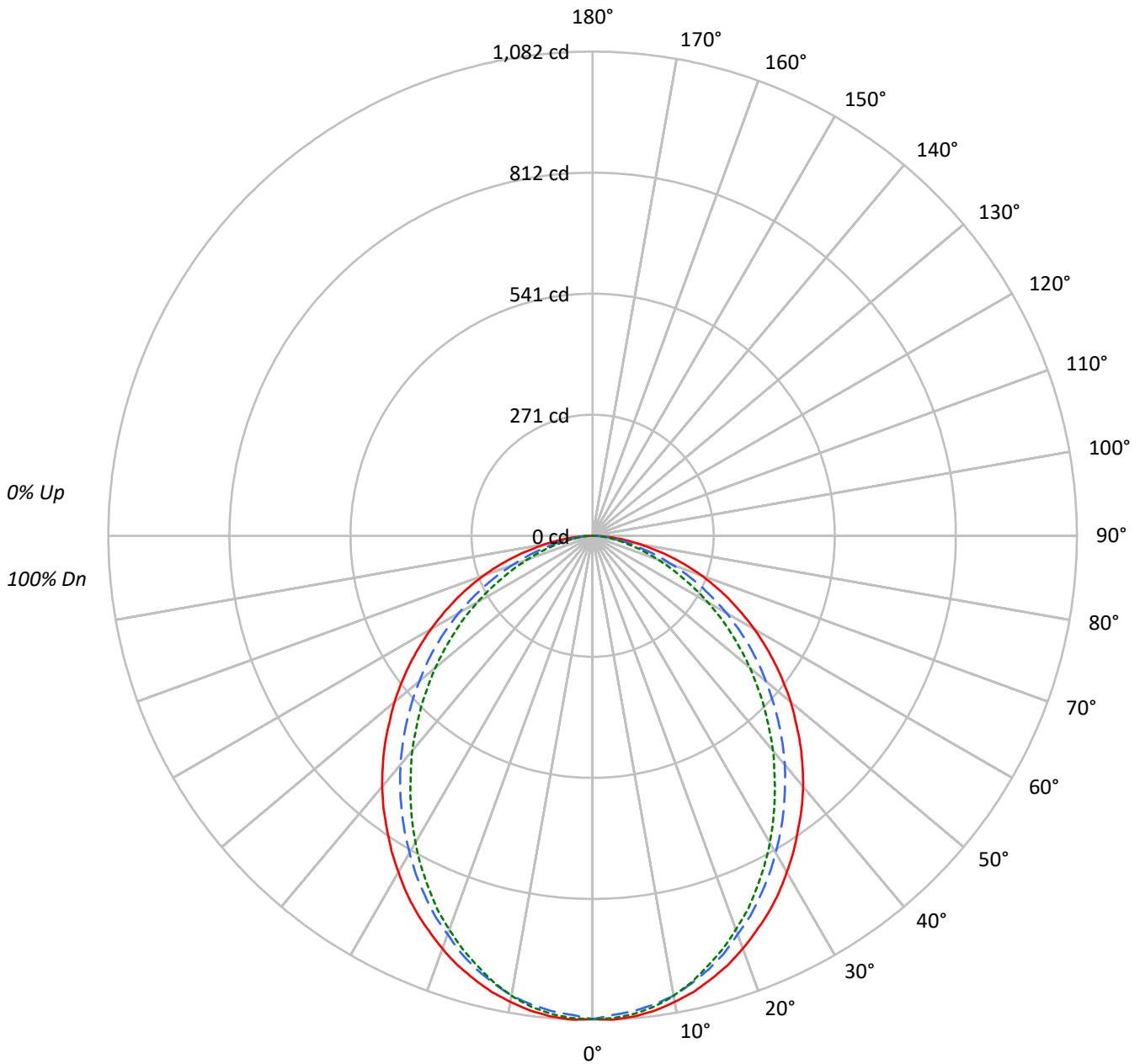
Lumens per Lamp: N/A  
Luminaire Lumens: 2551.0 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')  
CIE Type: Direct

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°	10269	10269	10269
5°	10292	10176	10236
10°	10214	10080	10080
15°	10094	9875	9796
20°	9937	9591	9475
25°	9755	9310	9105
30°	9529	8982	8697
35°	9297	8645	8237
40°	9083	8292	7787
45°	8818	7896	7294
50°	8555	7469	6782
55°	8249	7060	6236
60°	7941	6560	5645
65°	7582	5984	4971
70°	7169	5258	4285
75°	6592	4435	3568
80°	5806	3489	3001
85°	4889	2859	2673



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.6	4.0
10°-20°	284.0	11.1
20°-30°	411.8	16.1
30°-40°	469.1	18.4
40°-50°	457.3	17.9
50°-60°	384.8	15.1
60°-70°	269.7	10.6
70°-80°	138.3	5.4
80°-90°	34.5	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°	797.4	31.3
0°-40°	1266.5	49.6
0°-60°	2108.6	82.7
0°-90°	2551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2551.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1078	1075	1066	1074	1072	102
15°	1025	1020	1003	1002	995	289
25°	930	917	887	877	868	428
35°	801	781	745	721	710	501
45°	656	632	587	555	542	506
55°	498	471	426	389	376	445
65°	337	309	266	233	221	334
75°	179	155	121	103	97	190
85°	45	30	26	25	24	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1079.8	1079.8	1079.8	1079.8	1079.8
2.5°	1082.2	1079.8	1071.6	1079.8	1078.9
5°	1078.1	1074.9	1065.9	1073.9	1072.2
7.5°	1070.0	1066.6	1056.0	1062.5	1061.0
10°	1057.7	1055.3	1043.8	1046.4	1043.8
12.5°	1043.8	1040.5	1024.1	1025.8	1021.8
15°	1025.2	1020.2	1002.9	1002.2	994.9
17.5°	1005.5	998.3	977.7	973.7	968.0
20°	981.8	973.7	947.6	943.5	936.2
22.5°	955.7	947.6	920.0	911.0	905.1
25°	929.6	917.3	887.2	876.6	867.7
27.5°	900.4	885.6	853.8	840.0	831.1
30°	867.7	852.3	817.9	799.3	791.9
32.5°	835.8	817.2	782.1	760.9	751.2
35°	800.8	781.3	744.6	721.0	709.5
37.5°	767.4	743.7	706.1	678.6	667.0
40°	731.6	707.1	667.9	636.9	627.2
42.5°	693.9	668.6	627.8	598.6	583.0
45°	655.6	632.2	587.1	554.6	542.3
47.5°	615.5	591.3	546.2	513.0	499.0
50°	578.2	551.2	504.8	470.6	458.4
52.5°	537.3	509.8	466.4	428.9	416.6
55°	497.5	471.4	425.8	389.1	376.1
57.5°	456.7	428.9	385.0	349.0	337.6
60°	417.5	389.1	344.9	309.1	296.8
62.5°	376.1	349.0	304.2	271.5	259.3
65°	336.9	309.1	265.9	233.1	220.9
67.5°	297.6	270.0	228.3	197.4	187.7
70°	257.8	229.9	189.1	163.8	154.1
72.5°	218.6	191.7	154.1	131.3	125.7
75°	179.4	154.9	120.7	102.9	97.1
77.5°	139.3	119.8	91.2	77.6	72.6
80°	106.0	86.5	63.7	56.3	54.8
82.5°	73.4	56.3	42.5	39.8	39.2
85°	44.8	30.1	26.2	25.3	24.5
87.5°	18.9	13.0	12.3	12.3	11.3
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)