

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: P888377

Luminaire Tested: **DPT5-4F029-37V60-F-XX-UDD\_5000K**

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: P888377  
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: DPT5-4F029-37V60-F-XX-UDD\_5000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

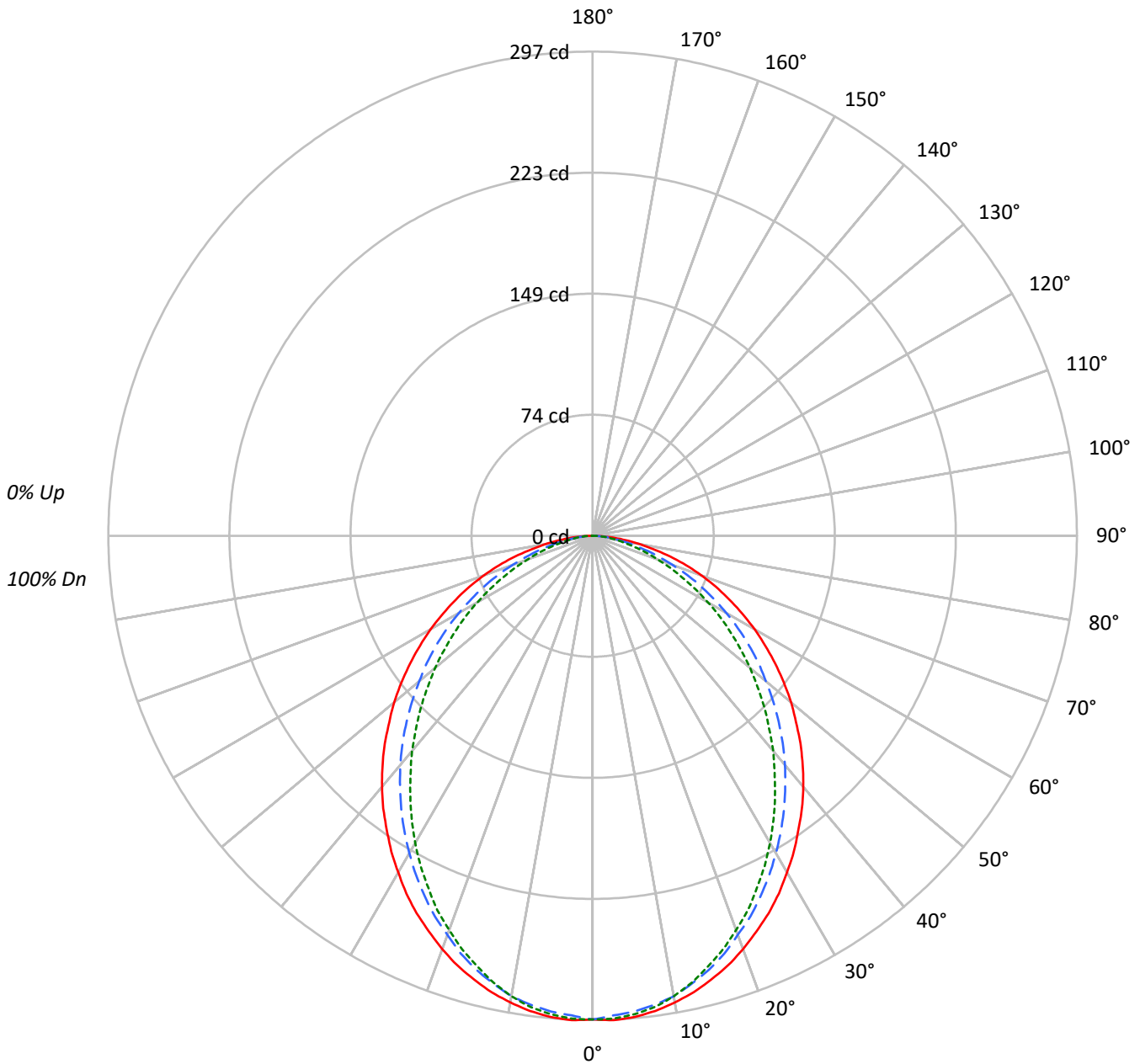
Lumens per Lamp: N/A  
Luminaire Lumens: 701.0 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 7  
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°	3534	3534	3534
5°	3542	3502	3522
10°	3516	3468	3468
15°	3473	3398	3371
20°	3419	3300	3261
25°	3356	3204	3133
30°	3278	3091	2992
35°	3200	2975	2835
40°	3125	2853	2679
45°	3035	2717	2510
50°	2944	2570	2335
55°	2838	2429	2145
60°	2732	2258	1944
65°	2610	2060	1711
70°	2465	1811	1476
75°	2269	1528	1229
80°	1996	1200	1029
85°	1681	984	916



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.9	4.0
10°-20°	78.0	11.1
20°-30°	113.2	16.1
30°-40°	128.9	18.4
40°-50°	125.6	17.9
50°-60°	105.7	15.1
60°-70°	74.1	10.6
70°-80°	38.0	5.4
80°-90°	9.5	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°	219.1	31.3
0°-40°	348.0	49.6
0°-60°	579.4	82.7
0°-90°	701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	701.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	297	297	297	297	297	
5°	296	295	293	295	295	28
15°	282	280	276	275	273	79
25°	255	252	244	241	238	118
35°	220	215	205	198	195	138
45°	180	174	161	152	149	139
55°	137	130	117	107	103	122
65°	93	85	73	64	61	92
75°	49	43	33	28	27	52
85°	12	8	7	7	7	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	296.7	296.7	296.7	296.7	296.7
2.5°	297.4	296.7	294.5	296.7	296.5
5°	296.3	295.4	292.9	295.1	294.6
7.5°	294.0	293.1	290.2	292.0	291.6
10°	290.7	290.0	286.8	287.5	286.8
12.5°	286.8	285.9	281.4	281.9	280.8
15°	281.7	280.3	275.6	275.4	273.4
17.5°	276.3	274.3	268.7	267.6	266.0
20°	269.8	267.6	260.4	259.3	257.3
22.5°	262.6	260.4	252.8	250.3	248.7
25°	255.4	252.1	243.8	240.9	238.4
27.5°	247.4	243.3	234.6	230.8	228.4
30°	238.4	234.2	224.8	219.7	217.6
32.5°	229.7	224.6	214.9	209.1	206.4
35°	220.1	214.7	204.6	198.1	195.0
37.5°	210.9	204.4	194.0	186.5	183.3
40°	201.0	194.3	183.5	175.0	172.3
42.5°	190.7	183.7	172.5	164.5	160.2
45°	180.2	173.7	161.3	152.4	149.0
47.5°	169.1	162.5	150.1	141.0	137.1
50°	158.9	151.5	138.7	129.3	126.0
52.5°	147.7	140.1	128.2	117.8	114.5
55°	136.7	129.5	117.0	106.9	103.3
57.5°	125.5	117.8	105.8	95.9	92.8
60°	114.7	106.9	94.8	84.9	81.6
62.5°	103.3	95.9	83.6	74.6	71.2
65°	92.6	84.9	73.1	64.1	60.7
67.5°	81.8	74.2	62.7	54.2	51.6
70°	70.8	63.2	52.0	45.0	42.4
72.5°	60.1	52.7	42.4	36.1	34.5
75°	49.3	42.6	33.2	28.3	26.7
77.5°	38.3	32.9	25.1	21.3	20.0
80°	29.1	23.8	17.5	15.5	15.0
82.5°	20.2	15.5	11.7	10.9	10.8
85°	12.3	8.3	7.2	6.9	6.7
87.5°	5.2	3.6	3.4	3.4	3.1
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)