

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: P888372

Luminaire Tested: **DPT5-4F029-37V60-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: P888372  
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\_2700K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

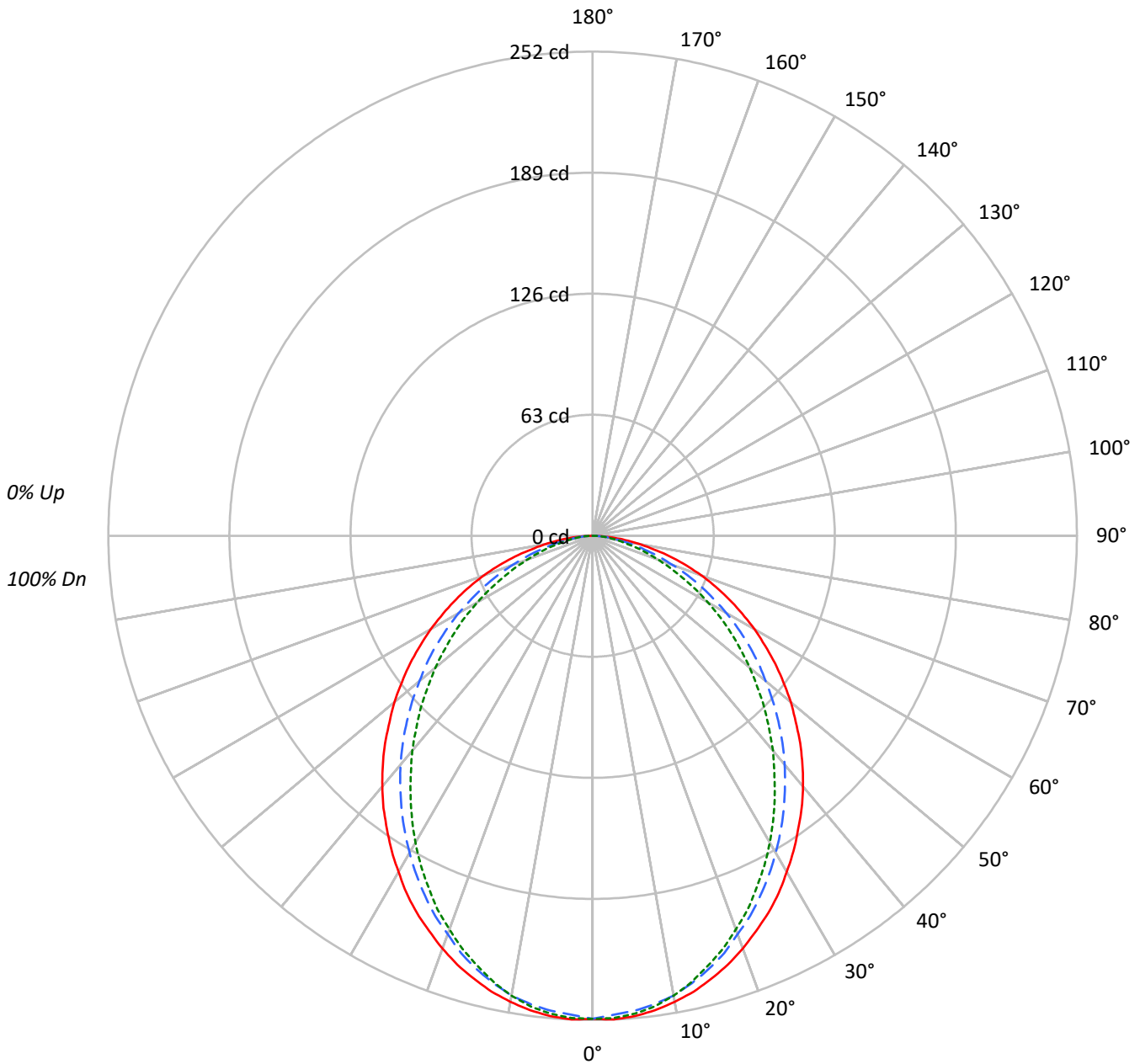
Lumens per Lamp: N/A  
Luminaire Lumens: 594.0 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

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°	2994	2994	2994
5°	3001	2967	2985
10°	2979	2939	2939
15°	2943	2879	2857
20°	2897	2796	2763
25°	2845	2715	2654
30°	2778	2620	2536
35°	2712	2521	2402
40°	2648	2418	2270
45°	2572	2302	2127
50°	2494	2177	1977
55°	2407	2060	1819
60°	2315	1913	1646
65°	2209	1744	1448
70°	2089	1532	1250
75°	1923	1293	1040
80°	1694	1015	878
85°	1421	834	779



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.7	4.0
10°-20°	66.1	11.1
20°-30°	95.9	16.1
30°-40°	109.2	18.4
40°-50°	106.5	17.9
50°-60°	89.6	15.1
60°-70°	62.8	10.6
70°-80°	32.2	5.4
80°-90°	8.0	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°	185.7	31.3
0°-40°	294.9	49.6
0°-60°	491.0	82.7
0°-90°	594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	594.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	251	251	251	251	251	
5°	251	250	248	250	250	24
15°	239	238	234	233	232	67
25°	216	214	207	204	202	100
35°	186	182	173	168	165	117
45°	153	147	137	129	126	118
55°	116	110	99	91	88	104
65°	78	72	62	54	51	78
75°	42	36	28	24	23	44
85°	10	7	6	6	6	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	251.4	251.4	251.4	251.4	251.4
2.5°	252.0	251.4	249.5	251.4	251.2
5°	251.0	250.3	248.2	250.1	249.7
7.5°	249.1	248.4	245.9	247.4	247.1
10°	246.3	245.7	243.0	243.6	243.0
12.5°	243.0	242.3	238.5	238.9	237.9
15°	238.7	237.5	233.5	233.4	231.7
17.5°	234.1	232.4	227.7	226.7	225.4
20°	228.6	226.7	220.6	219.7	218.0
22.5°	222.5	220.6	214.2	212.1	210.7
25°	216.5	213.6	206.6	204.1	202.0
27.5°	209.7	206.2	198.8	195.6	193.5
30°	202.0	198.5	190.5	186.1	184.4
32.5°	194.6	190.3	182.1	177.2	174.9
35°	186.5	181.9	173.4	167.9	165.2
37.5°	178.7	173.2	164.4	158.0	155.3
40°	170.3	164.6	155.5	148.3	146.0
42.5°	161.6	155.7	146.2	139.4	135.8
45°	152.7	147.2	136.7	129.1	126.3
47.5°	143.3	137.7	127.2	119.4	116.2
50°	134.6	128.4	117.5	109.6	106.7
52.5°	125.1	118.7	108.6	99.9	97.0
55°	115.9	109.8	99.2	90.6	87.6
57.5°	106.3	99.9	89.6	81.3	78.6
60°	97.2	90.6	80.3	72.0	69.1
62.5°	87.6	81.3	70.8	63.2	60.4
65°	78.4	72.0	61.9	54.3	51.4
67.5°	69.3	62.9	53.2	46.0	43.7
70°	60.0	53.5	44.0	38.1	35.9
72.5°	50.9	44.6	35.9	30.6	29.3
75°	41.8	36.1	28.1	24.0	22.6
77.5°	32.4	27.9	21.2	18.1	16.9
80°	24.7	20.1	14.8	13.1	12.8
82.5°	17.1	13.1	9.9	9.3	9.1
85°	10.4	7.0	6.1	5.9	5.7
87.5°	4.4	3.0	2.9	2.9	2.6
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)