

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: P888311

Luminaire Tested: **DPT5-4F021-127V60-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: P888311  
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: DPT5-4F021-127V60-F-XX-UDD\_5000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

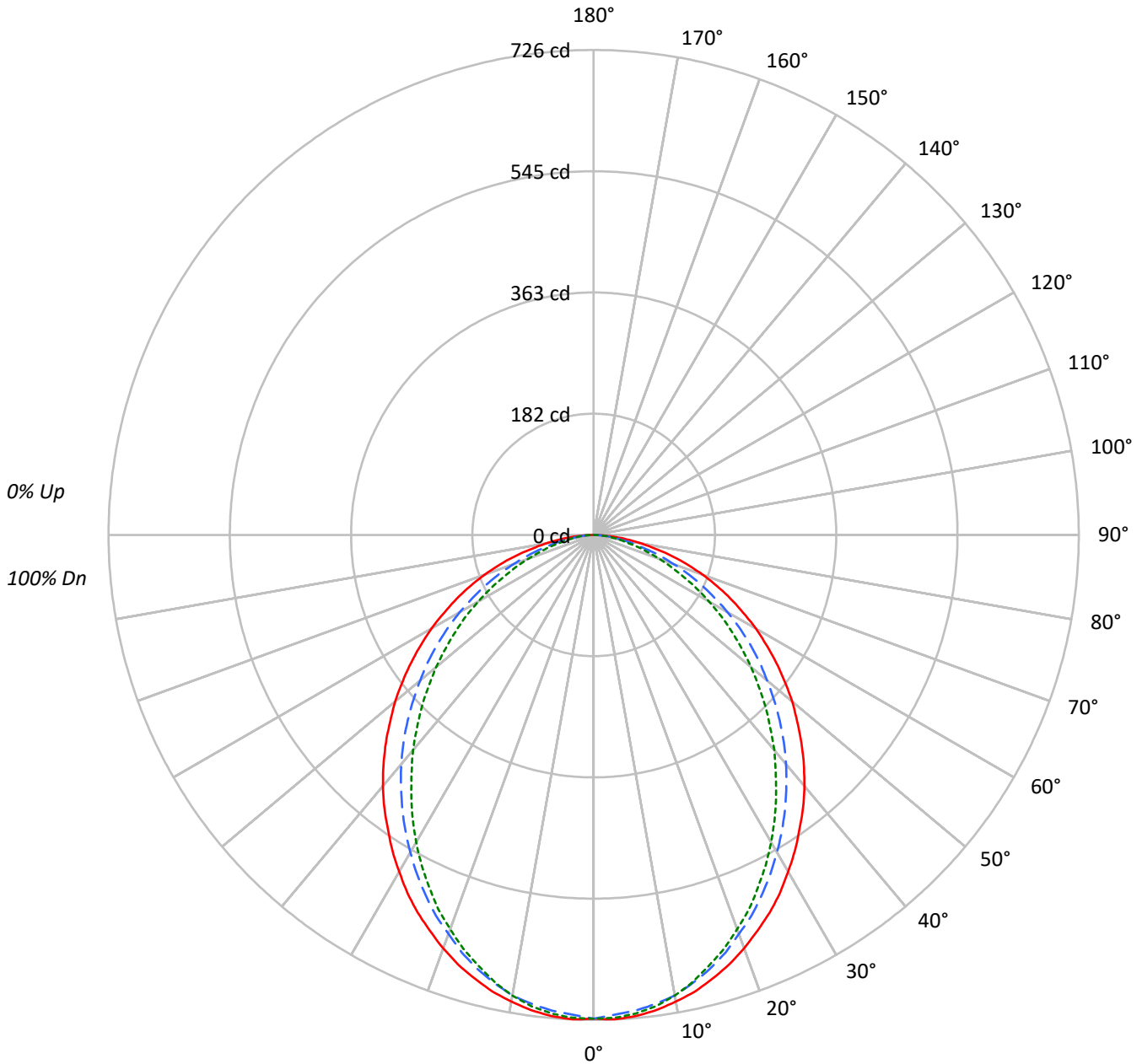
Lumens per Lamp: N/A  
Luminaire Lumens: 1711.0 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')  
CIE Type: Direct

Input Watts (W): 17  
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°	12119	12119	12119
5°	12146	12009	12081
10°	12054	11896	11896
15°	11912	11654	11560
20°	11726	11319	11181
25°	11512	10988	10746
30°	11246	10600	10264
35°	10972	10202	9722
40°	10719	9786	9190
45°	10406	9319	8607
50°	10096	8815	8003
55°	9735	8332	7358
60°	9371	7741	6663
65°	8949	7064	5864
70°	8459	6204	5059
75°	7778	5237	4209
80°	6852	4115	3537
85°	5760	3379	3149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.2	4.0
10°-20°	190.5	11.1
20°-30°	276.2	16.1
30°-40°	314.7	18.4
40°-50°	306.7	17.9
50°-60°	258.1	15.1
60°-70°	180.9	10.6
70°-80°	92.7	5.4
80°-90°	23.1	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°	534.8	31.3
0°-40°	849.5	49.6
0°-60°	1414.3	82.7
0°-90°	1711.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1711.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	724	724	724	724	724	
5°	723	721	715	720	719	69
15°	688	684	673	672	667	194
25°	624	615	595	588	582	287
35°	537	524	499	484	476	336
45°	440	424	394	372	364	339
55°	334	316	286	261	252	298
65°	226	207	178	156	148	224
75°	120	104	81	69	65	127
85°	30	20	18	17	16	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	724.2	724.2	724.2	724.2	724.2
2.5°	725.9	724.2	718.8	724.2	723.6
5°	723.1	721.0	714.9	720.3	719.2
7.5°	717.6	715.4	708.3	712.7	711.7
10°	709.4	707.8	700.1	701.8	700.1
12.5°	700.1	697.9	686.9	688.0	685.4
15°	687.6	684.3	672.7	672.2	667.3
17.5°	674.4	669.5	655.7	653.1	649.3
20°	658.5	653.1	635.6	632.8	627.9
22.5°	641.0	635.6	617.1	611.0	607.0
25°	623.5	615.3	595.1	588.0	582.0
27.5°	603.9	594.0	572.6	563.4	557.4
30°	582.0	571.6	548.6	536.1	531.2
32.5°	560.6	548.1	524.6	510.4	503.9
35°	537.1	524.0	499.4	483.6	475.9
37.5°	514.7	498.8	473.6	455.2	447.3
40°	490.7	474.2	448.0	427.2	420.7
42.5°	465.4	448.5	421.1	401.5	391.0
45°	439.7	424.0	393.8	372.0	363.7
47.5°	412.8	396.6	366.4	344.1	334.7
50°	387.8	369.7	338.6	315.6	307.4
52.5°	360.4	341.9	312.8	287.6	279.4
55°	333.7	316.2	285.6	261.0	252.2
57.5°	306.3	287.6	258.2	234.1	226.5
60°	280.0	261.0	231.3	207.3	199.1
62.5°	252.2	234.1	204.0	182.1	173.9
65°	226.0	207.3	178.4	156.4	148.1
67.5°	199.6	181.1	153.1	132.4	125.9
70°	172.9	154.2	126.8	109.9	103.4
72.5°	146.6	128.6	103.4	88.1	84.3
75°	120.3	103.9	81.0	69.0	65.1
77.5°	93.4	80.4	61.2	52.0	48.7
80°	71.1	58.0	42.7	37.7	36.7
82.5°	49.2	37.7	28.5	26.7	26.3
85°	30.0	20.2	17.6	16.9	16.4
87.5°	12.7	8.7	8.2	8.2	7.6
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)