

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: P888310

Luminaire Tested: **DPT5-4F021-127V60-F-XX-UDD\_4500K**

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: P888310  
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\_4500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

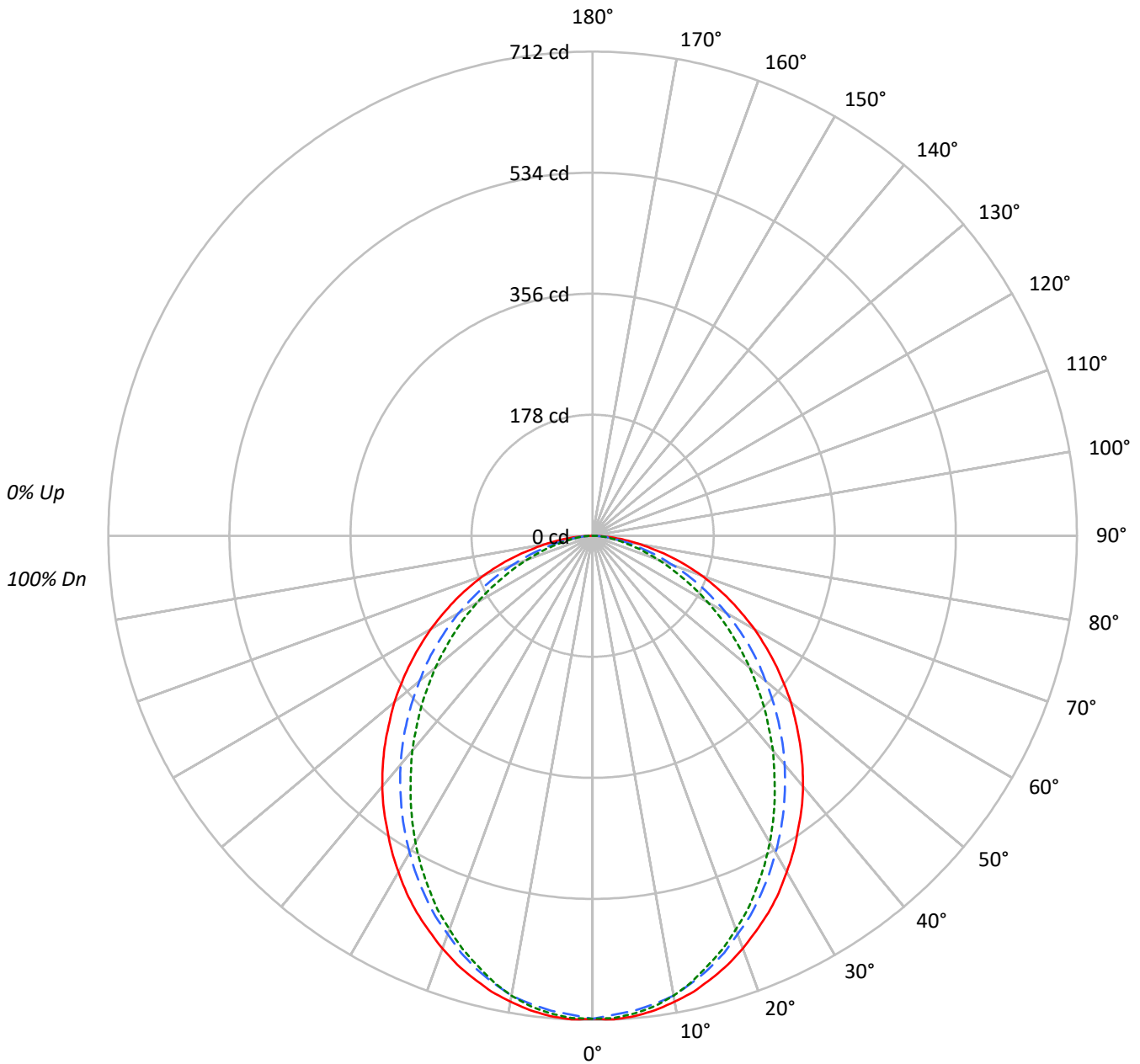
Lumens per Lamp: N/A  
Luminaire Lumens: 1678.0 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')  
CIE Type: Direct

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°	11886	11886	11886
5°	11913	11777	11847
10°	11821	11667	11667
15°	11682	11429	11337
20°	11500	11100	10966
25°	11291	10775	10539
30°	11029	10395	10065
35°	10762	10006	9534
40°	10512	9596	9011
45°	10207	9139	8441
50°	9900	8643	7849
55°	9549	8172	7218
60°	9190	7594	6533
65°	8774	6925	5753
70°	8298	6086	4961
75°	7629	5134	4131
80°	6726	4038	3469
85°	5664	3302	3091



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.8	4.0
10°-20°	186.8	11.1
20°-30°	270.9	16.1
30°-40°	308.6	18.4
40°-50°	300.8	17.9
50°-60°	253.1	15.1
60°-70°	177.4	10.6
70°-80°	90.9	5.4
80°-90°	22.7	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°	524.5	31.3
0°-40°	833.1	49.6
0°-60°	1387.0	82.7
0°-90°	1678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1678.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	710	710	710	710	710	
5°	709	707	701	706	705	67
15°	674	671	660	659	654	190
25°	612	603	584	577	571	281
35°	527	514	490	474	467	330
45°	431	416	386	365	357	333
55°	327	310	280	256	247	293
65°	222	203	175	153	145	219
75°	118	102	79	68	64	125
85°	30	20	17	17	16	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	710.3	710.3	710.3	710.3	710.3
2.5°	711.9	710.3	704.9	710.3	709.7
5°	709.2	707.1	701.1	706.4	705.3
7.5°	703.8	701.6	694.6	698.9	697.9
10°	695.7	694.1	686.6	688.3	686.6
12.5°	686.6	684.4	673.6	674.7	672.2
15°	674.3	671.1	659.7	659.2	654.4
17.5°	661.4	656.6	643.1	640.5	636.7
20°	645.8	640.5	623.3	620.6	615.8
22.5°	628.7	623.3	605.2	599.2	595.3
25°	611.5	603.4	583.6	576.6	570.8
27.5°	592.3	582.5	561.6	552.5	546.7
30°	570.8	560.6	538.0	525.8	520.9
32.5°	549.8	537.5	514.4	500.5	494.1
35°	526.8	513.9	489.8	474.2	466.7
37.5°	504.8	489.2	464.5	446.4	438.7
40°	481.2	465.1	439.3	418.9	412.5
42.5°	456.4	439.8	412.9	393.7	383.5
45°	431.3	415.8	386.2	364.8	356.7
47.5°	404.9	389.0	359.3	337.4	328.3
50°	380.3	362.6	332.0	309.6	301.5
52.5°	353.4	335.3	306.8	282.1	274.0
55°	327.3	310.1	280.1	255.9	247.4
57.5°	300.4	282.1	253.2	229.6	222.1
60°	274.6	255.9	226.9	203.3	195.2
62.5°	247.4	229.6	200.1	178.6	170.6
65°	221.6	203.3	174.9	153.3	145.3
67.5°	195.7	177.6	150.2	129.9	123.5
70°	169.6	151.2	124.4	107.8	101.4
72.5°	143.8	126.1	101.4	86.4	82.7
75°	118.0	101.9	79.4	67.7	63.9
77.5°	91.6	78.8	60.0	51.0	47.8
80°	69.8	56.9	41.9	37.0	36.0
82.5°	48.3	37.0	28.0	26.2	25.8
85°	29.5	19.8	17.2	16.6	16.1
87.5°	12.4	8.6	8.1	8.1	7.5
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)