

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: P888087

Luminaire Tested: **DPT5-4F029-127V60-A-XX-UDD\_3000K**

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: P888087  
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: DPT5-4F029-127V60-A-XX-UDD\_3000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

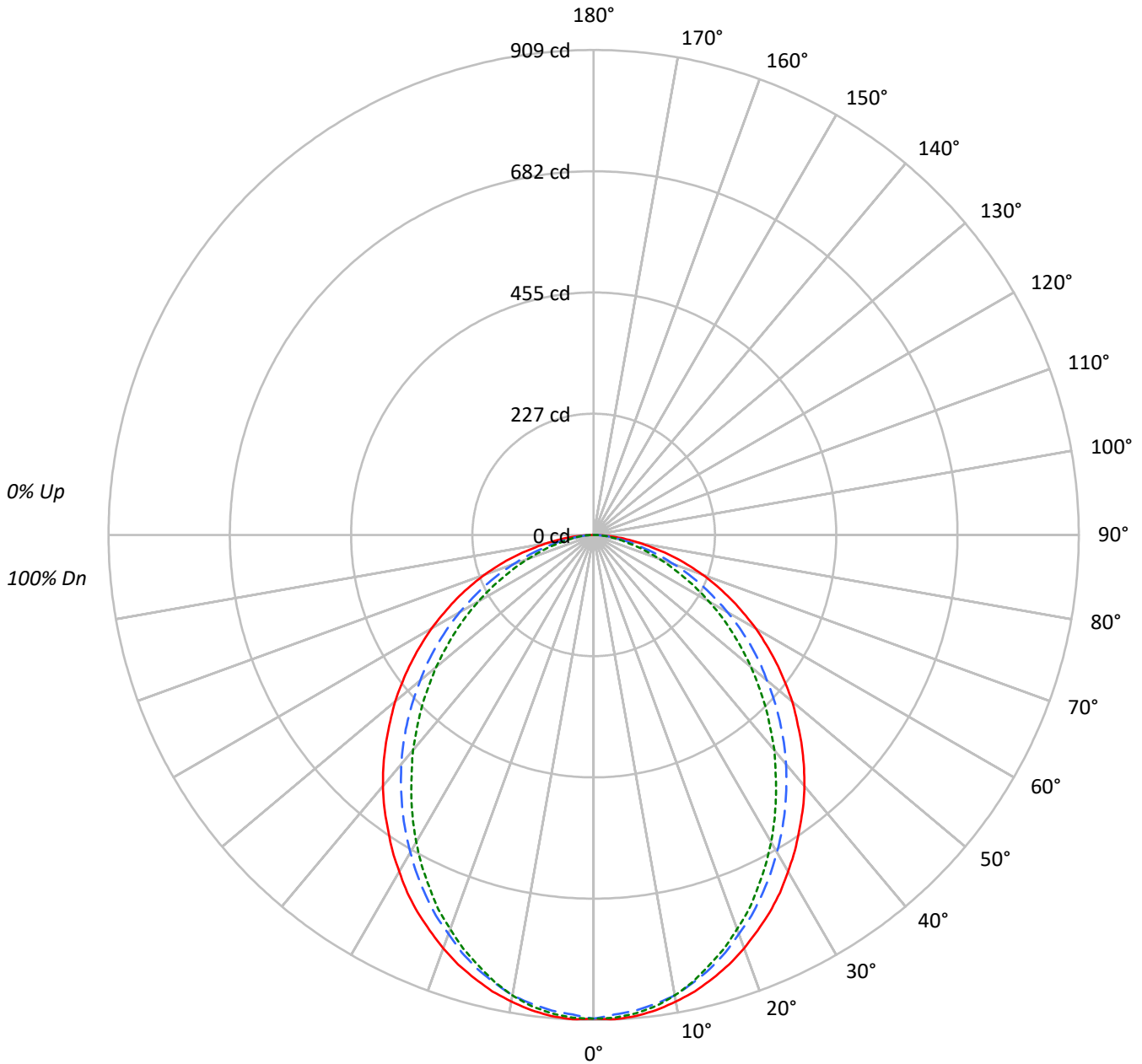
Lumens per Lamp: N/A  
Luminaire Lumens: 2142.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 24  
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°	10798	10798	10798
5°	10823	10700	10763
10°	10740	10599	10599
15°	10613	10383	10300
20°	10448	10085	9963
25°	10256	9790	9574
30°	10020	9445	9144
35°	9776	9090	8661
40°	9550	8719	8187
45°	9272	8303	7670
50°	8995	7854	7131
55°	8675	7425	6557
60°	8351	6898	5936
65°	7972	6293	5225
70°	7535	5530	4506
75°	6930	4666	3750
80°	6104	3669	3155
85°	5138	3006	2815



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	4.0
10°-20°	238.4	11.1
20°-30°	345.8	16.1
30°-40°	393.9	18.4
40°-50°	383.9	17.9
50°-60°	323.1	15.1
60°-70°	226.4	10.6
70°-80°	116.1	5.4
80°-90°	29.0	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°	669.5	31.3
0°-40°	1063.5	49.6
0°-60°	1770.5	82.7
0°-90°	2142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2142.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	907	907	907	907	907	
5°	905	903	895	902	900	86
15°	861	857	842	842	835	243
25°	780	770	745	736	729	359
35°	672	656	625	605	596	421
45°	550	531	493	466	455	425
55°	418	396	358	327	316	374
65°	283	260	223	196	185	280
75°	151	130	101	86	82	159
85°	38	25	22	21	21	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	906.7	906.7	906.7	906.7	906.7
2.5°	908.7	906.7	899.8	906.7	905.9
5°	905.3	902.6	895.0	901.7	900.3
7.5°	898.4	895.6	886.7	892.2	890.9
10°	888.1	886.1	876.4	878.6	876.4
12.5°	876.4	873.6	859.9	861.3	858.0
15°	860.8	856.6	842.1	841.5	835.4
17.5°	844.3	838.2	820.9	817.6	812.8
20°	824.4	817.6	795.7	792.2	786.1
22.5°	802.5	795.7	772.5	764.9	760.0
25°	780.5	770.2	745.0	736.1	728.6
27.5°	756.0	743.6	716.9	705.3	697.8
30°	728.6	715.6	686.8	671.2	664.9
32.5°	701.8	686.2	656.7	638.9	630.8
35°	672.4	656.1	625.2	605.4	595.7
37.5°	644.4	624.4	592.9	569.8	560.0
40°	614.3	593.7	560.8	534.8	526.6
42.5°	582.6	561.4	527.1	502.6	489.5
45°	550.5	530.8	493.0	465.7	455.4
47.5°	516.8	496.5	458.7	430.7	419.0
50°	485.5	462.9	423.9	395.2	384.9
52.5°	451.2	428.1	391.6	360.1	349.8
55°	417.8	395.8	357.6	326.7	315.8
57.5°	383.5	360.1	323.3	293.0	283.5
60°	350.6	326.7	289.6	259.5	249.2
62.5°	315.8	293.0	255.4	228.0	217.7
65°	282.9	259.5	223.3	195.7	185.4
67.5°	249.8	226.7	191.7	165.8	157.6
70°	216.4	193.1	158.8	137.6	129.4
72.5°	183.5	160.9	129.4	110.3	105.6
75°	150.6	130.1	101.4	86.4	81.5
77.5°	117.0	100.6	76.6	65.2	61.0
80°	89.0	72.7	53.5	47.3	46.0
82.5°	61.6	47.3	35.7	33.4	32.9
85°	37.6	25.3	22.0	21.2	20.6
87.5°	15.9	10.9	10.3	10.3	9.5
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)