

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: P888088

Luminaire Tested: **DPT5-4F029-127V60-A-XX-UDD\_3500K**

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: P888088  
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\_3500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

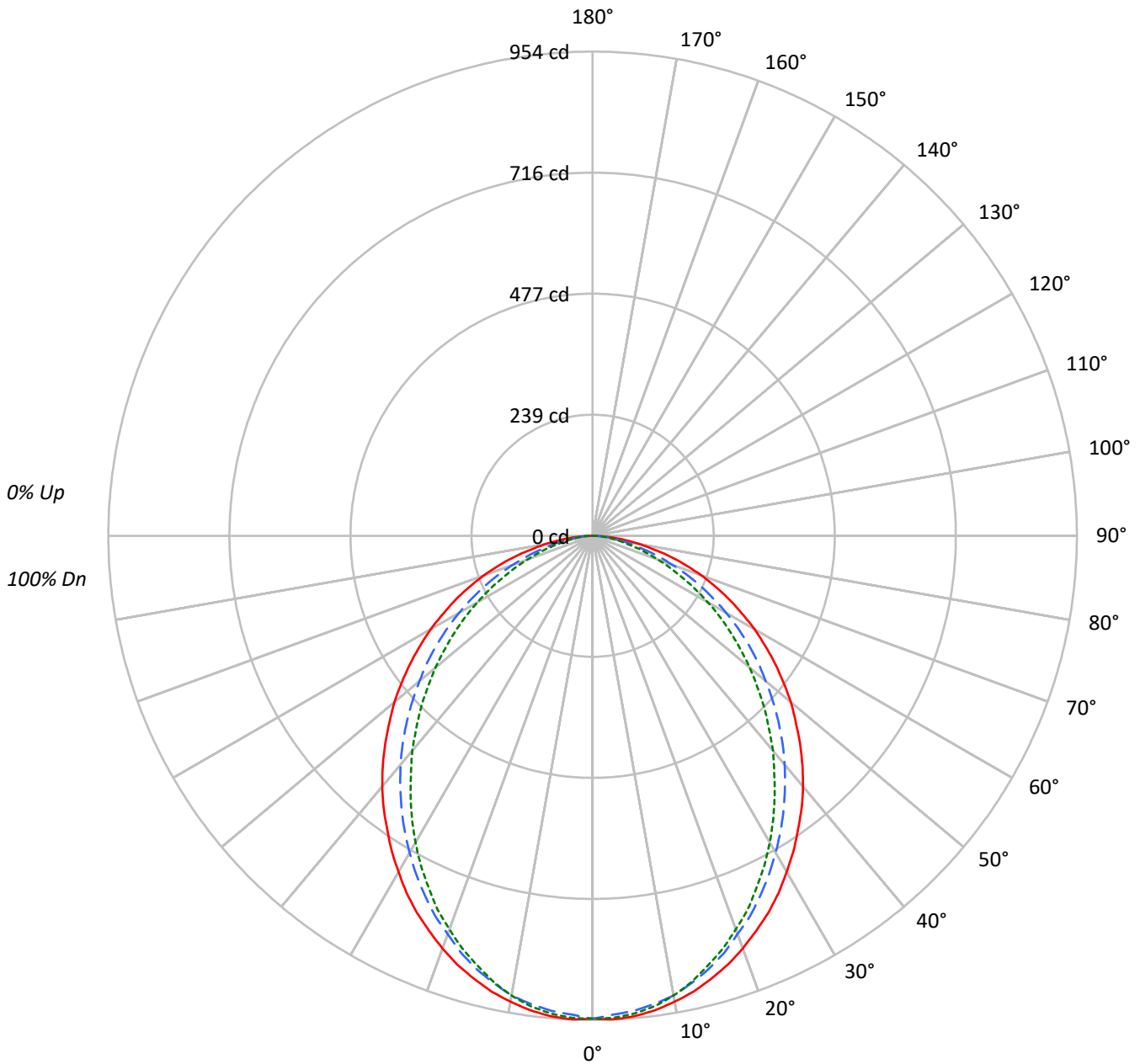
Lumens per Lamp: N/A  
Luminaire Lumens: 2248.0 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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°	11332	11332	11332
5°	11359	11229	11296
10°	11272	11123	11123
15°	11139	10897	10809
20°	10965	10583	10456
25°	10765	10273	10047
30°	10515	9912	9598
35°	10260	9539	9090
40°	10023	9149	8593
45°	9730	8714	8049
50°	9440	8241	7483
55°	9103	7793	6881
60°	8763	7239	6229
65°	8367	6606	5484
70°	7911	5801	4729
75°	7275	4896	3939
80°	6406	3848	3313
85°	5398	3157	2952



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.6	4.0
10°-20°	250.3	11.1
20°-30°	362.9	16.1
30°-40°	413.4	18.4
40°-50°	402.9	17.9
50°-60°	339.1	15.1
60°-70°	237.6	10.6
70°-80°	121.8	5.4
80°-90°	30.4	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°	702.7	31.3
0°-40°	1116.1	49.6
0°-60°	1858.1	82.7
0°-90°	2248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	950	947	939	946	945	90
15°	903	899	884	883	877	255
25°	819	808	782	772	765	377
35°	706	688	656	635	625	442
45°	578	557	517	489	478	446
55°	438	415	375	343	331	392
65°	297	272	234	205	195	294
75°	158	136	106	91	86	167
85°	40	26	23	22	22	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	951.5	951.5	951.5	951.5	951.5
2.5°	953.7	951.5	944.3	951.5	950.7
5°	950.1	947.3	939.3	946.3	944.9
7.5°	942.9	939.9	930.6	936.3	935.0
10°	932.1	929.9	919.8	922.1	919.8
12.5°	919.8	916.9	902.5	903.9	900.5
15°	903.4	899.0	883.8	883.1	876.7
17.5°	886.1	879.7	861.6	858.1	853.0
20°	865.2	858.1	835.0	831.4	825.0
22.5°	842.2	835.0	810.8	802.8	797.6
25°	819.2	808.4	781.8	772.5	764.6
27.5°	793.4	780.4	752.4	740.2	732.4
30°	764.6	751.0	720.8	704.4	697.9
32.5°	736.5	720.1	689.2	670.5	662.0
35°	705.7	688.5	656.1	635.3	625.2
37.5°	676.3	655.3	622.3	598.0	587.7
40°	644.7	623.1	588.5	561.2	552.7
42.5°	611.5	589.2	553.2	527.5	513.8
45°	577.7	557.1	517.4	488.7	477.9
47.5°	542.4	521.1	481.4	452.0	439.8
50°	509.5	485.8	444.8	414.7	403.9
52.5°	473.5	449.2	411.0	377.9	367.1
55°	438.4	415.4	375.3	342.9	331.4
57.5°	402.4	377.9	339.3	307.5	297.5
60°	367.9	342.9	303.9	272.3	261.5
62.5°	331.4	307.5	268.1	239.3	228.5
65°	296.9	272.3	234.4	205.4	194.6
67.5°	262.2	237.9	201.2	174.0	165.4
70°	227.2	202.6	166.6	144.4	135.8
72.5°	192.6	168.9	135.8	115.7	110.8
75°	158.1	136.5	106.4	90.6	85.6
77.5°	122.8	105.6	80.4	68.4	64.0
80°	93.4	76.3	56.1	49.6	48.3
82.5°	64.7	49.6	37.5	35.1	34.5
85°	39.5	26.5	23.1	22.3	21.6
87.5°	16.7	11.5	10.8	10.8	10.0
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)