

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: P888359

Luminaire Tested: **DPT5-4F029-127S35-F-XX-UDD**

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: P888359  
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: DPT5-4F029-127S35-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

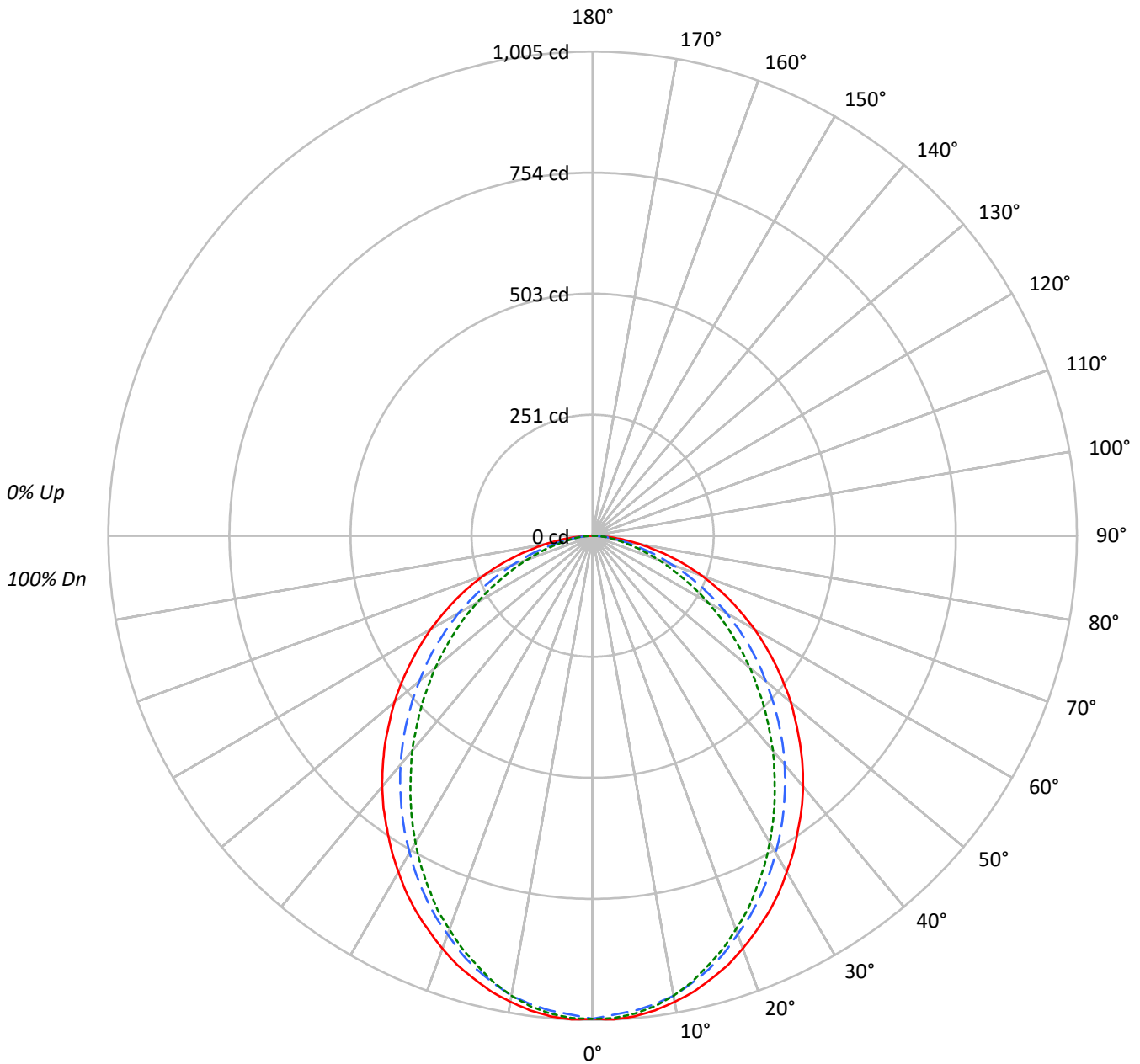
Lumens per Lamp: N/A  
Luminaire Lumens: 2369.0 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

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°	11942	11942	11942
5°	11969	11833	11904
10°	11878	11722	11722
15°	11738	11484	11391
20°	11555	11153	11019
25°	11344	10827	10589
30°	11081	10446	10113
35°	10813	10052	9580
40°	10563	9642	9055
45°	10254	9183	8482
50°	9948	8686	7887
55°	9593	8212	7251
60°	9235	7629	6565
65°	8818	6961	5780
70°	8336	6115	4983
75°	7666	5158	4151
80°	6756	4053	3491
85°	5685	3321	3116



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.4	4.0
10°-20°	263.7	11.1
20°-30°	382.4	16.1
30°-40°	435.7	18.4
40°-50°	424.6	17.9
50°-60°	357.4	15.1
60°-70°	250.4	10.6
70°-80°	128.4	5.4
80°-90°	32.0	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°	740.5	31.3
0°-40°	1176.2	49.6
0°-60°	1958.2	82.7
0°-90°	2369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2369.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1001	998	990	997	996	95
15°	952	947	931	931	924	268
25°	863	852	824	814	806	397
35°	744	726	691	670	659	466
45°	609	587	545	515	504	470
55°	462	438	396	361	349	413
65°	313	287	247	216	205	310
75°	167	144	112	96	90	176
85°	42	28	24	24	23	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1002.7	1002.7	1002.7	1002.7	1002.7
2.5°	1005.0	1002.7	995.2	1002.7	1001.9
5°	1001.2	998.3	989.8	997.3	995.7
7.5°	993.6	990.5	980.7	986.7	985.3
10°	982.2	980.0	969.3	971.7	969.3
12.5°	969.3	966.2	951.1	952.6	948.9
15°	952.0	947.4	931.4	930.7	923.9
17.5°	933.8	927.0	907.9	904.3	898.9
20°	911.7	904.3	880.0	876.2	869.4
22.5°	887.6	880.0	854.4	846.0	840.5
25°	863.3	851.9	823.9	814.1	805.8
27.5°	836.1	822.4	792.9	780.1	771.8
30°	805.8	791.5	759.6	742.3	735.4
32.5°	776.2	758.9	726.3	706.6	697.6
35°	743.7	725.6	691.4	669.5	658.9
37.5°	712.7	690.6	655.8	630.2	619.4
40°	679.4	656.6	620.2	591.4	582.4
42.5°	644.4	620.9	583.0	555.9	541.4
45°	608.8	587.1	545.2	515.0	503.6
47.5°	571.6	549.1	507.3	476.4	463.4
50°	536.9	511.9	468.8	437.0	425.7
52.5°	499.0	473.4	433.1	398.3	386.9
55°	462.0	437.7	395.5	361.3	349.2
57.5°	424.1	398.3	357.5	324.1	313.6
60°	387.7	361.3	320.3	287.0	275.6
62.5°	349.2	324.1	282.5	252.2	240.8
65°	312.9	287.0	247.0	216.5	205.1
67.5°	276.3	250.8	212.0	183.3	174.3
70°	239.4	213.5	175.6	152.1	143.1
72.5°	203.0	178.0	143.1	121.9	116.7
75°	166.6	143.9	112.1	95.5	90.2
77.5°	129.4	111.3	84.7	72.1	67.4
80°	98.5	80.4	59.1	52.3	50.9
82.5°	68.1	52.3	39.5	36.9	36.4
85°	41.6	28.0	24.3	23.5	22.8
87.5°	17.6	12.1	11.4	11.4	10.5
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)