

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: P888084

Luminaire Tested: **DPT5-4F029-127S35-A-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: P888084  
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-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

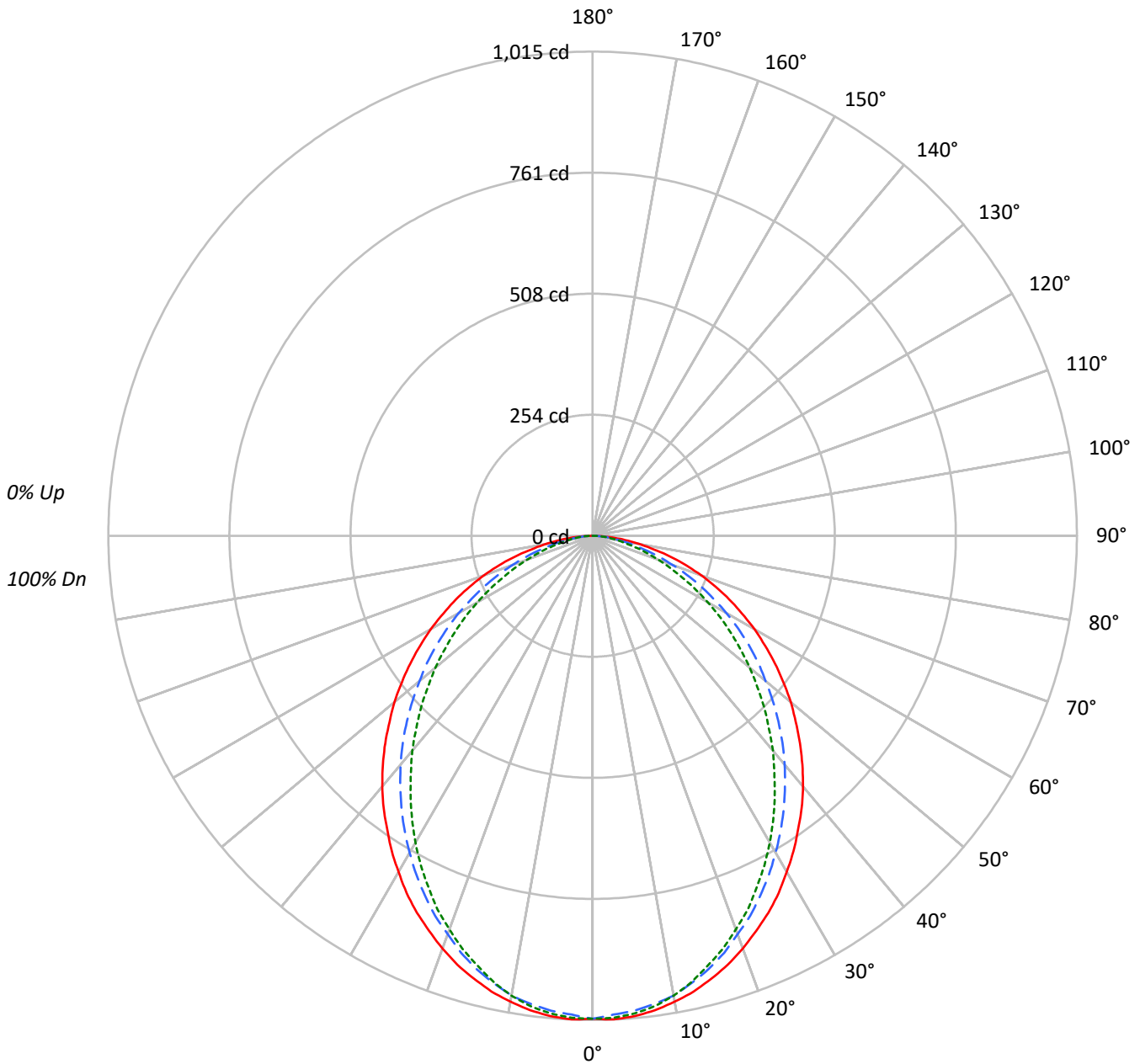
Lumens per Lamp: N/A  
Luminaire Lumens: 2392.0 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P888084

CATALOG NUMBER: DPT5-4F029-127S35-A-XX-UDD

### Luminous Intensity Polar Plot





TEST NUMBER: P888084

CATALOG NUMBER: DPT5-4F029-127S35-A-XX-UDD

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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	100	100	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85	85	85	85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72	72	72	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61	61	61	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53	53	53	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46	46	46	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41	41	41	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36	36	36	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33	33	33	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29	29	29	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27	27	27	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12058	12058	12058
5°	12085	11948	12020
10°	11994	11836	11836
15°	11853	11595	11502
20°	11668	11261	11126
25°	11454	10932	10691
30°	11189	10548	10212
35°	10917	10151	9673
40°	10665	9735	9143
45°	10355	9272	8565
50°	10044	8769	7963
55°	9686	8291	7321
60°	9325	7703	6629
65°	8902	7028	5836
70°	8416	6174	5032
75°	7740	5209	4192
80°	6817	4095	3518
85°	5739	3348	3143



TEST NUMBER: P888084

CATALOG NUMBER: DPT5-4F029-127S35-A-XX-UDD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.3	4.0
10°-20°	266.3	11.1
20°-30°	386.1	16.1
30°-40°	439.9	18.4
40°-50°	428.8	17.9
50°-60°	360.8	15.1
60°-70°	252.8	10.6
70°-80°	129.6	5.4
80°-90°	32.3	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°	747.7	31.3
0°-40°	1187.6	49.6
0°-60°	1977.2	82.7
0°-90°	2392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2392.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1011	1008	999	1007	1005	96
15°	961	957	940	940	933	271
25°	872	860	832	822	814	401
35°	751	733	698	676	665	470
45°	615	593	550	520	508	474
55°	466	442	399	365	353	417
65°	316	290	249	219	207	313
75°	168	145	113	96	91	178
85°	42	28	24	24	23	48
90°	0	0	0	0	0	



TEST NUMBER: P888084

CATALOG NUMBER: DPT5-4F029-127S35-A-XX-UDD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1012.5	1012.5	1012.5	1012.5	1012.5
2.5°	1014.8	1012.5	1004.8	1012.5	1011.6
5°	1010.9	1007.9	999.4	1007.0	1005.4
7.5°	1003.3	1000.1	990.2	996.3	994.9
10°	991.8	989.5	978.7	981.1	978.7
12.5°	978.7	975.6	960.3	961.8	958.2
15°	961.3	956.6	940.4	939.7	932.9
17.5°	942.8	936.0	916.7	913.1	907.7
20°	920.6	913.1	888.5	884.7	877.9
22.5°	896.2	888.5	862.7	854.2	848.7
25°	871.6	860.1	831.9	822.0	813.6
27.5°	844.3	830.4	800.6	787.7	779.3
30°	813.6	799.2	767.0	749.5	742.6
32.5°	783.7	766.2	733.3	713.5	704.4
35°	750.9	732.6	698.2	676.0	665.3
37.5°	719.6	697.3	662.1	636.3	625.4
40°	686.0	663.0	626.2	597.2	588.1
42.5°	650.6	627.0	588.7	561.3	546.7
45°	614.8	592.8	550.5	520.0	508.5
47.5°	577.2	554.5	512.2	481.0	467.9
50°	542.1	516.9	473.3	441.3	429.8
52.5°	503.8	478.0	437.3	402.1	390.6
55°	466.5	442.0	399.3	364.8	352.6
57.5°	428.2	402.1	361.0	327.2	316.6
60°	391.5	364.8	323.4	289.8	278.3
62.5°	352.6	327.2	285.2	254.6	243.1
65°	315.9	289.8	249.4	218.6	207.1
67.5°	279.0	253.2	214.0	185.1	176.0
70°	241.7	215.6	177.3	153.6	144.5
72.5°	205.0	179.7	144.5	123.1	117.9
75°	168.2	145.2	113.2	96.5	91.1
77.5°	130.6	112.3	85.5	72.8	68.1
80°	99.4	81.1	59.7	52.8	51.3
82.5°	68.8	52.8	39.9	37.3	36.7
85°	42.0	28.2	24.5	23.7	23.0
87.5°	17.7	12.2	11.5	11.5	10.6
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)