

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: P888115

Luminaire Tested: **DPT5-4F029-85S27-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: P888115  
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: DPT5-4F029-85S27-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

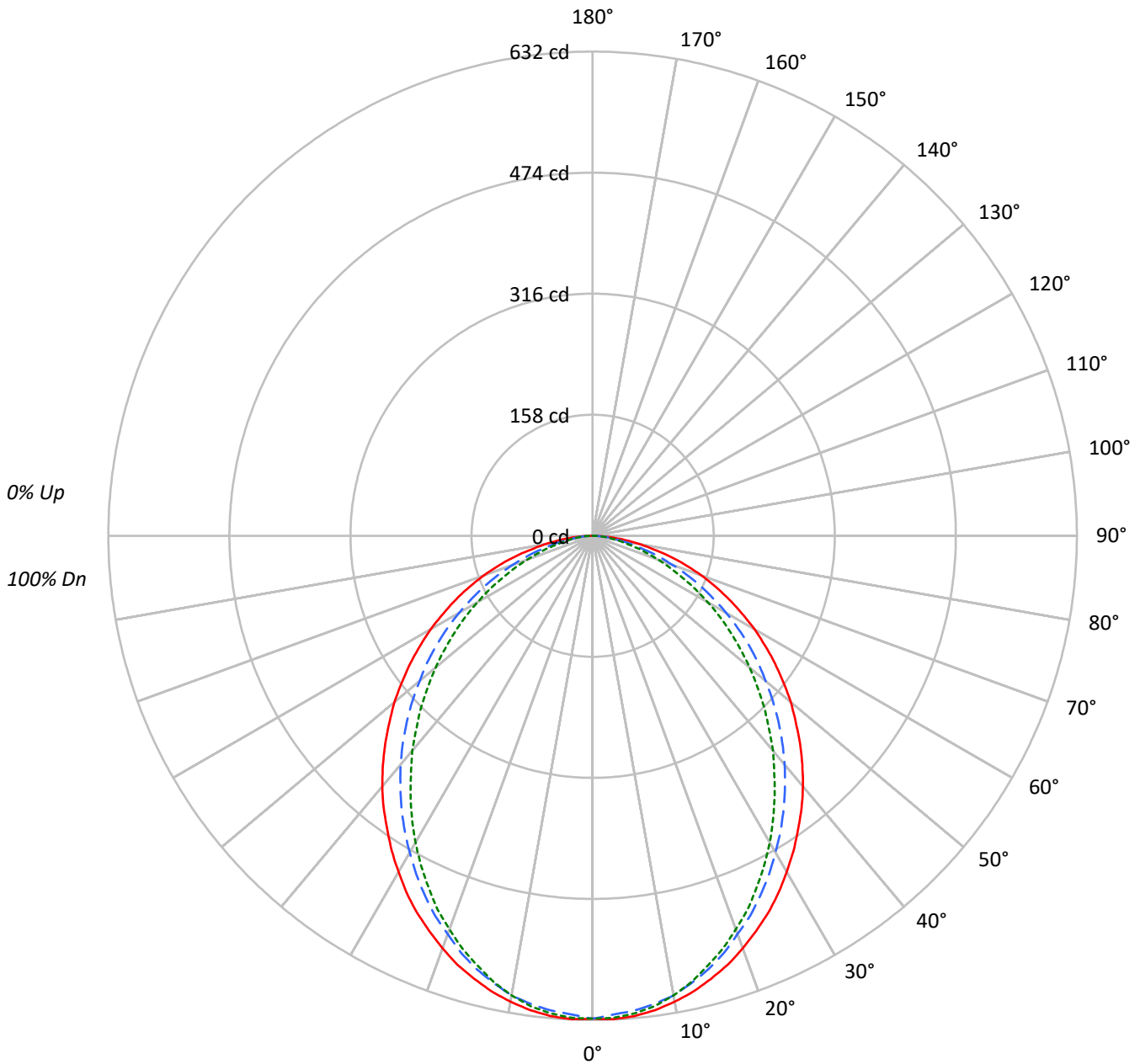
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1489.0 lumens  
Efficiency: N/A  
Efficacy: 92.5 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): 16.1  
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: P888115  
CATALOG NUMBER: DPT5-4F029-85S27-A-XX-UDD

### 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°	7507	7507	7507
5°	7523	7437	7481
10°	7466	7367	7367
15°	7378	7218	7160
20°	7262	7010	6926
25°	7130	6806	6656
30°	6965	6565	6356
35°	6796	6319	6021
40°	6639	6060	5692
45°	6446	5772	5331
50°	6253	5458	4956
55°	6030	5162	4558
60°	5805	4795	4125
65°	5540	4374	3632
70°	5241	3844	3134
75°	4818	3244	2609
80°	4245	2551	2195
85°	3566	2091	1954



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.3	4.0
10°-20°	165.8	11.1
20°-30°	240.3	16.1
30°-40°	273.8	18.4
40°-50°	266.9	17.9
50°-60°	224.6	15.1
60°-70°	157.4	10.6
70°-80°	80.7	5.4
80°-90°	20.1	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°	465.4	31.3
0°-40°	739.3	49.6
0°-60°	1230.8	82.7
0°-90°	1489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1489.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	629	627	622	627	626	60
15°	598	596	585	585	581	169
25°	543	535	518	512	506	250
35°	467	456	435	421	414	293
45°	383	369	343	324	316	295
55°	290	275	249	227	220	260
65°	197	180	155	136	129	195
75°	105	90	70	60	57	111
85°	26	18	15	15	14	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	630.3	630.3	630.3	630.3	630.3
2.5°	631.7	630.3	625.5	630.3	629.7
5°	629.3	627.4	622.1	626.8	625.8
7.5°	624.5	622.6	616.4	620.2	619.3
10°	617.4	616.0	609.2	610.7	609.2
12.5°	609.2	607.3	597.8	598.7	596.4
15°	598.4	595.5	585.4	585.0	580.7
17.5°	586.9	582.7	570.7	568.4	565.0
20°	573.0	568.4	553.1	550.7	546.5
22.5°	557.9	553.1	537.0	531.7	528.3
25°	542.6	535.4	517.9	511.7	506.5
27.5°	525.5	516.9	498.3	490.3	485.1
30°	506.5	497.5	477.4	466.6	462.2
32.5°	487.8	477.0	456.5	444.1	438.5
35°	467.4	456.1	434.6	420.8	414.1
37.5°	447.9	434.1	412.2	396.1	389.3
40°	427.0	412.7	389.8	371.7	366.1
42.5°	405.0	390.3	366.4	349.4	340.3
45°	382.7	369.0	342.7	323.7	316.5
47.5°	359.3	345.2	318.8	299.4	291.3
50°	337.5	321.8	294.6	274.7	267.5
52.5°	313.6	297.6	272.2	250.3	243.2
55°	290.4	275.1	248.6	227.1	219.5
57.5°	266.6	250.3	224.7	203.7	197.1
60°	243.7	227.1	201.3	180.4	173.2
62.5°	219.5	203.7	177.6	158.5	151.3
65°	196.6	180.4	155.2	136.1	128.9
67.5°	173.7	157.6	133.2	115.2	109.6
70°	150.5	134.2	110.4	95.6	90.0
72.5°	127.6	111.9	90.0	76.6	73.4
75°	104.7	90.4	70.5	60.0	56.7
77.5°	81.3	69.9	53.2	45.3	42.4
80°	61.9	50.5	37.2	32.8	32.0
82.5°	42.8	32.8	24.8	23.2	22.9
85°	26.1	17.6	15.3	14.7	14.3
87.5°	11.0	7.6	7.2	7.2	6.6
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)