

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: P888124

Luminaire Tested: **DPT5-4F029-85V60-A-XX-UDD\_5000K**

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: P888124  
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: DPT5-4F029-85V60-A-XX-UDD\_5000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

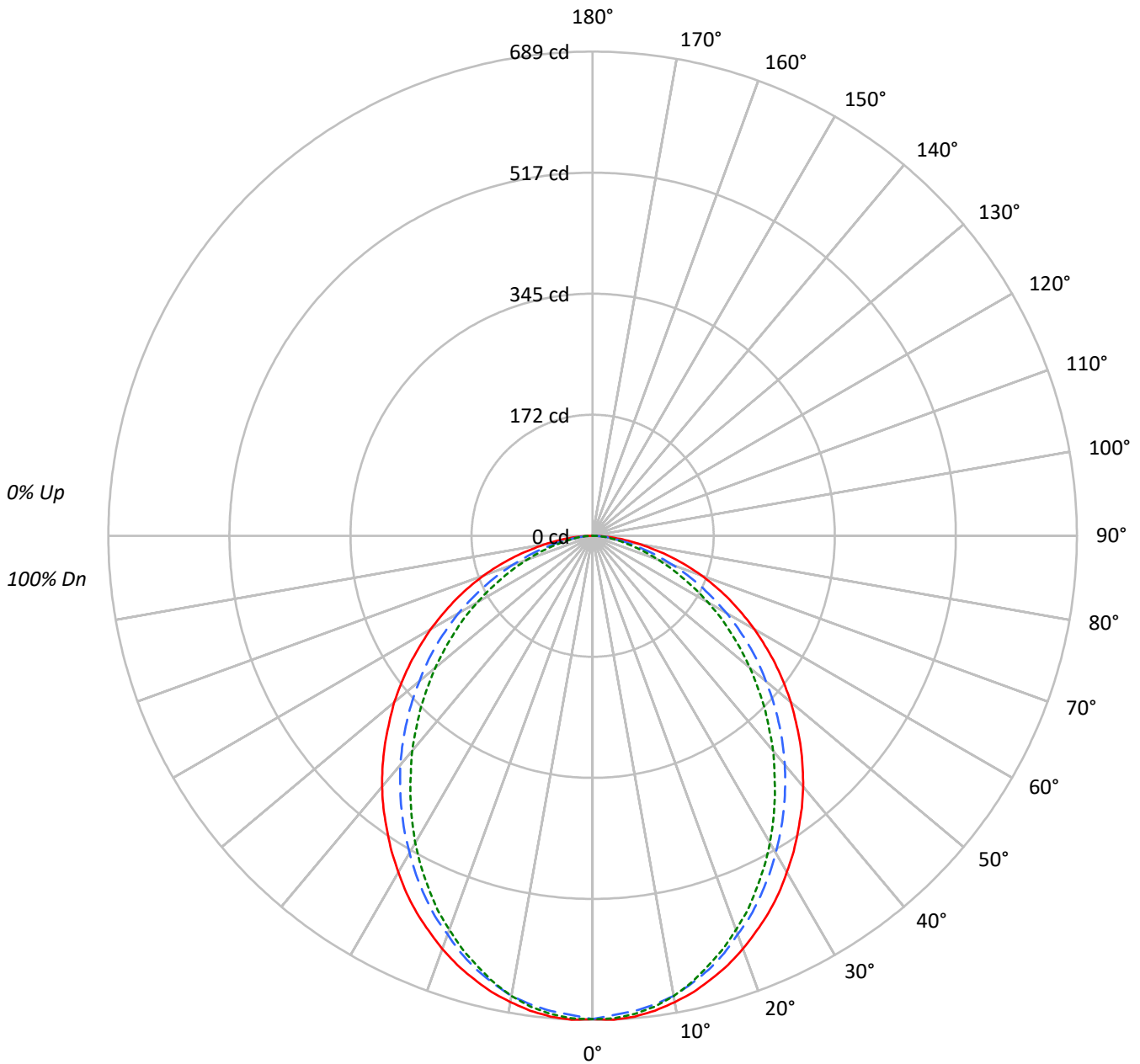
Lumens per Lamp: N/A  
Luminaire Lumens: 1625.0 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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

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### Luminous Intensity Polar Plot





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

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

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

	0°	45°	90°
0°	8191	8191	8191
5°	8211	8118	8165
10°	8148	8041	8041
15°	8051	7877	7815
20°	7926	7650	7559
25°	7781	7427	7263
30°	7601	7165	6938
35°	7416	6896	6570
40°	7245	6614	6211
45°	7034	6299	5819
50°	6824	5959	5410
55°	6580	5633	4975
60°	6336	5233	4504
65°	6048	4774	3965
70°	5718	4196	3419
75°	5260	3539	2848
80°	4629	2785	2394
85°	3894	2282	2132



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.7	4.0
10°-20°	180.9	11.1
20°-30°	262.3	16.1
30°-40°	298.8	18.4
40°-50°	291.3	17.9
50°-60°	245.1	15.1
60°-70°	171.8	10.6
70°-80°	88.1	5.4
80°-90°	22.0	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°	507.9	31.3
0°-40°	806.8	49.6
0°-60°	1343.2	82.7
0°-90°	1625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1625.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	687	685	679	684	683	65
15°	653	650	639	638	634	184
25°	592	584	565	558	553	273
35°	510	498	474	459	452	319
45°	418	403	374	353	346	322
55°	317	300	271	248	240	283
65°	215	197	169	148	141	212
75°	114	99	77	66	62	121
85°	28	19	17	16	16	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	687.8	687.8	687.8	687.8	687.8
2.5°	689.4	687.8	682.6	687.8	687.3
5°	686.8	684.7	679.0	684.1	683.0
7.5°	681.6	679.4	672.7	676.8	675.9
10°	673.8	672.2	664.9	666.5	664.9
12.5°	664.9	662.8	652.4	653.4	650.9
15°	653.0	649.9	638.9	638.4	633.8
17.5°	640.5	635.9	622.8	620.3	616.6
20°	625.4	620.3	603.6	601.0	596.4
22.5°	608.8	603.6	586.1	580.3	576.5
25°	592.1	584.3	565.2	558.4	552.7
27.5°	573.5	564.1	543.9	535.1	529.4
30°	552.7	542.9	521.0	509.2	504.5
32.5°	532.4	520.5	498.2	484.7	478.5
35°	510.1	497.7	474.3	459.3	451.9
37.5°	488.8	473.7	449.8	432.3	424.9
40°	466.0	450.4	425.4	405.7	399.5
42.5°	442.0	425.9	399.9	381.3	371.4
45°	417.6	402.7	374.0	353.3	345.5
47.5°	392.1	376.7	348.0	326.8	317.9
50°	368.3	351.1	321.6	299.8	292.0
52.5°	342.3	324.7	297.1	273.2	265.4
55°	316.9	300.3	271.3	247.8	239.6
57.5°	290.9	273.2	245.2	222.3	215.1
60°	266.0	247.8	219.7	196.9	189.1
62.5°	239.6	222.3	193.8	173.0	165.2
65°	214.6	196.9	169.4	148.5	140.7
67.5°	189.5	172.0	145.4	125.8	119.6
70°	164.2	146.5	120.5	104.4	98.2
72.5°	139.2	122.1	98.2	83.6	80.1
75°	114.3	98.7	76.9	65.5	61.9
77.5°	88.7	76.3	58.1	49.4	46.3
80°	67.5	55.1	40.6	35.8	34.9
82.5°	46.7	35.8	27.1	25.3	25.0
85°	28.5	19.2	16.7	16.1	15.6
87.5°	12.0	8.3	7.8	7.8	7.2
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)