

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: P888121

Luminaire Tested: **DPT5-4F029-85V60-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: P888121  
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\_3500K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

**Summary**

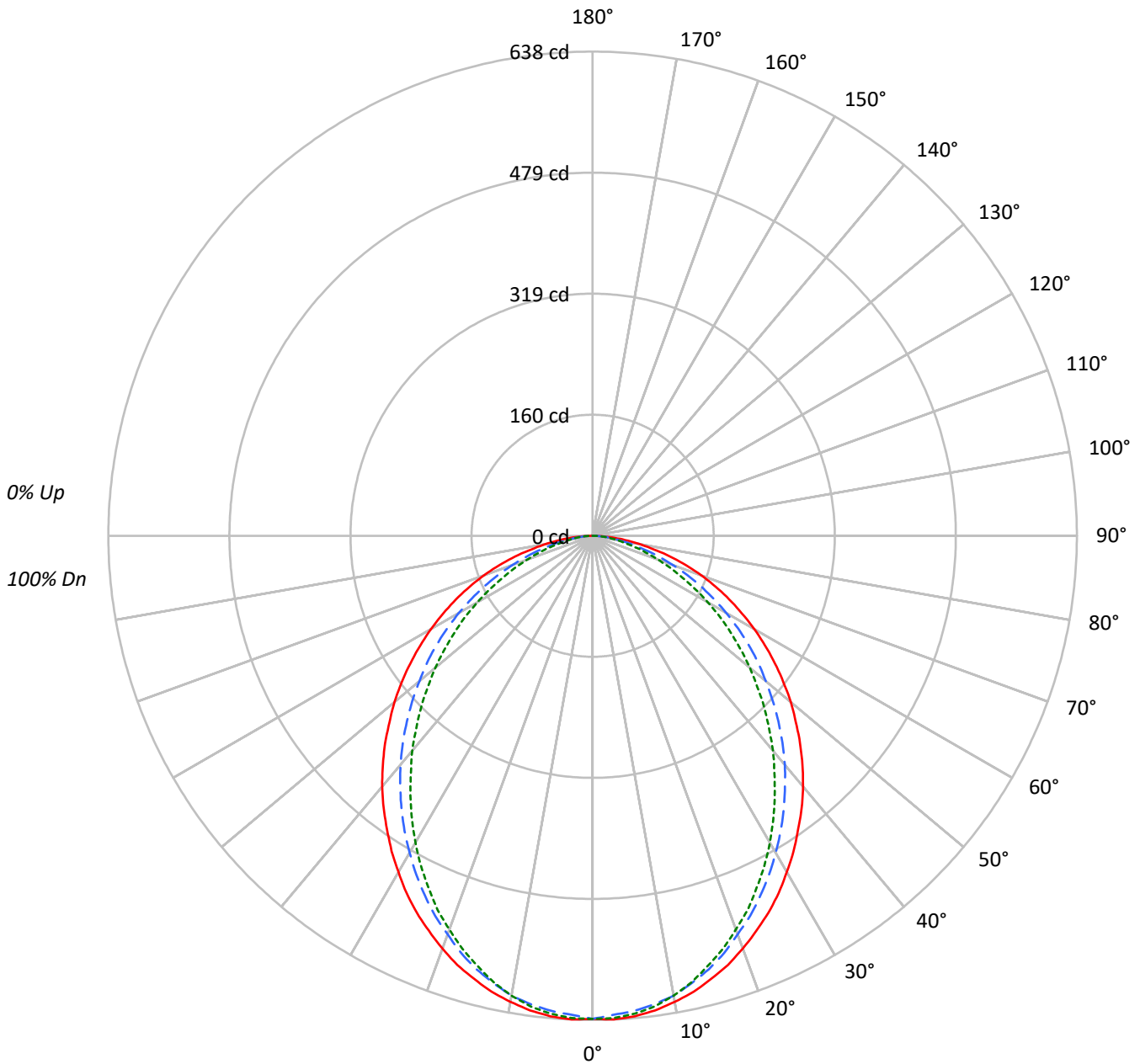
Lumens per Lamp: N/A  
Luminaire Lumens: 1504.0 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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									
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°	7582	7582	7582
5°	7599	7513	7558
10°	7541	7442	7442
15°	7452	7291	7233
20°	7336	7081	6996
25°	7202	6874	6723
30°	7036	6631	6421
35°	6865	6383	6082
40°	6705	6122	5749
45°	6510	5829	5385
50°	6316	5514	5006
55°	6090	5214	4603
60°	5864	4842	4168
65°	5597	4419	3669
70°	5293	3883	3165
75°	4868	3276	2637
80°	4287	2572	2215
85°	3607	2104	1968



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.9	4.0
10°-20°	167.4	11.1
20°-30°	242.8	16.1
30°-40°	276.6	18.4
40°-50°	269.6	17.9
50°-60°	226.9	15.1
60°-70°	159.0	10.6
70°-80°	81.5	5.4
80°-90°	20.3	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°	470.1	31.3
0°-40°	746.7	49.6
0°-60°	1243.2	82.7
0°-90°	1504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1504.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	636	634	628	633	632	60
15°	604	602	591	591	587	170
25°	548	541	523	517	512	252
35°	472	461	439	425	418	296
45°	386	373	346	327	320	298
55°	293	278	251	229	222	262
65°	199	182	157	137	130	197
75°	106	91	71	61	57	112
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°	636.6	636.6	636.6	636.6	636.6
2.5°	638.0	636.6	631.8	636.6	636.1
5°	635.6	633.8	628.4	633.1	632.2
7.5°	630.8	628.9	622.6	626.4	625.6
10°	623.6	622.2	615.4	616.9	615.4
12.5°	615.4	613.4	603.8	604.8	602.5
15°	604.4	601.5	591.3	590.9	586.6
17.5°	592.8	588.5	576.4	574.1	570.7
20°	578.8	574.1	558.7	556.3	552.0
22.5°	563.5	558.7	542.4	537.1	533.6
25°	548.1	540.8	523.1	516.8	511.6
27.5°	530.8	522.1	503.4	495.3	490.0
30°	511.6	502.5	482.2	471.3	466.9
32.5°	492.8	481.8	461.1	448.6	442.9
35°	472.2	460.6	439.0	425.1	418.3
37.5°	452.4	438.4	416.3	400.1	393.2
40°	431.3	416.9	393.8	375.5	369.8
42.5°	409.1	394.2	370.1	352.9	343.7
45°	386.5	372.7	346.1	327.0	319.7
47.5°	362.9	348.6	322.1	302.4	294.2
50°	340.9	325.0	297.6	277.5	270.2
52.5°	316.8	300.6	275.0	252.8	245.6
55°	293.3	277.9	251.1	229.4	221.7
57.5°	269.3	252.8	227.0	205.8	199.1
60°	246.2	229.4	203.3	182.2	175.0
62.5°	221.7	205.8	179.4	160.1	152.9
65°	198.6	182.2	156.8	137.4	130.2
67.5°	175.4	159.2	134.6	116.4	110.7
70°	152.0	135.6	111.5	96.6	90.9
72.5°	128.9	113.0	90.9	77.4	74.1
75°	105.8	91.3	71.2	60.6	57.3
77.5°	82.1	70.6	53.8	45.8	42.8
80°	62.5	51.0	37.5	33.2	32.3
82.5°	43.3	33.2	25.1	23.5	23.1
85°	26.4	17.7	15.4	14.9	14.4
87.5°	11.1	7.7	7.2	7.2	6.7
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)