

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: P888058

Luminaire Tested: **DPT5-4F021-61V60-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: P888058  
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: DPT5-4F021-61V60-A-XX-UDD\_5000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

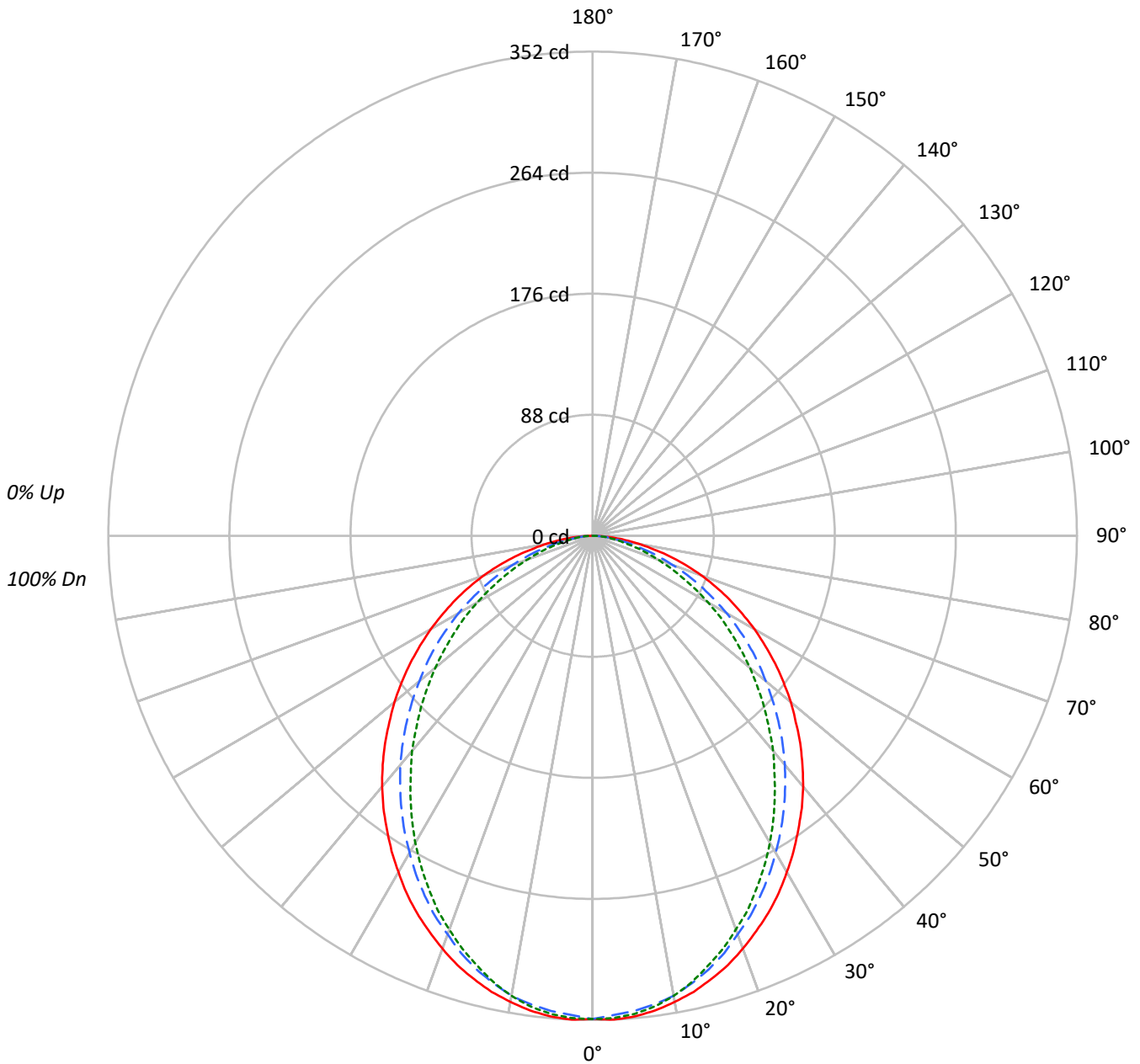
Lumens per Lamp: N/A  
Luminaire Lumens: 830.0 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 8.2  
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				
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°	5879	5879	5879
5°	5893	5825	5861
10°	5847	5770	5770
15°	5779	5653	5608
20°	5688	5490	5424
25°	5583	5330	5212
30°	5455	5142	4979
35°	5324	4950	4715
40°	5199	4747	4458
45°	5048	4520	4175
50°	4897	4275	3882
55°	4723	4044	3571
60°	4545	3755	3233
65°	4340	3425	2847
70°	4105	3009	2456
75°	3776	2541	2043
80°	3325	1995	1715
85°	2803	1632	1536



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.1	4.0
10°-20°	92.4	11.1
20°-30°	134.0	16.1
30°-40°	152.6	18.4
40°-50°	148.8	17.9
50°-60°	125.2	15.1
60°-70°	87.7	10.6
70°-80°	45.0	5.4
80°-90°	11.2	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°	259.4	31.3
0°-40°	412.1	49.6
0°-60°	686.1	82.7
0°-90°	830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	830.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	351	351	351	351	351	
5°	351	350	347	349	349	33
15°	334	332	326	326	324	94
25°	302	298	289	285	282	139
35°	261	254	242	235	231	163
45°	213	206	191	180	176	165
55°	162	153	139	127	122	145
65°	110	101	86	76	72	109
75°	58	50	39	34	32	62
85°	15	10	8	8	8	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	351.3	351.3	351.3	351.3	351.3
2.5°	352.1	351.3	348.7	351.3	351.0
5°	350.8	349.7	346.8	349.4	348.9
7.5°	348.1	347.0	343.6	345.7	345.2
10°	344.1	343.3	339.6	340.4	339.6
12.5°	339.6	338.5	333.2	333.8	332.5
15°	333.6	331.9	326.3	326.1	323.7
17.5°	327.2	324.8	318.1	316.8	314.9
20°	319.4	316.8	308.3	307.0	304.6
22.5°	311.0	308.3	299.3	296.4	294.5
25°	302.4	298.5	288.7	285.2	282.3
27.5°	292.9	288.1	277.8	273.3	270.4
30°	282.3	277.3	266.1	260.1	257.7
32.5°	271.9	265.9	254.5	247.6	244.4
35°	260.6	254.2	242.3	234.6	230.8
37.5°	249.7	242.0	229.8	220.8	217.0
40°	238.0	230.0	217.3	207.2	204.1
42.5°	225.8	217.5	204.3	194.8	189.7
45°	213.3	205.7	191.0	180.4	176.4
47.5°	200.3	192.4	177.7	166.9	162.4
50°	188.1	179.4	164.2	153.1	149.1
52.5°	174.8	165.9	151.7	139.5	135.5
55°	161.9	153.4	138.6	126.6	122.4
57.5°	148.6	139.5	125.3	113.5	109.9
60°	135.8	126.6	112.2	100.6	96.6
62.5°	122.4	113.5	99.0	88.3	84.4
65°	109.6	100.6	86.5	75.8	71.9
67.5°	96.8	87.9	74.3	64.2	61.1
70°	83.9	74.8	61.5	53.3	50.2
72.5°	71.1	62.4	50.2	42.7	40.9
75°	58.4	50.4	39.3	33.5	31.6
77.5°	45.3	39.0	29.7	25.2	23.6
80°	34.5	28.2	20.7	18.3	17.8
82.5°	23.9	18.3	13.8	12.9	12.7
85°	14.6	9.8	8.5	8.2	8.0
87.5°	6.2	4.2	4.0	4.0	3.7
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)