

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: P888067

Luminaire Tested: **DPT5-4F021-85V60-A-XX-UDD\_4000K**

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: P888067  
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: DPT5-4F021-85V60-A-XX-UDD\_4000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

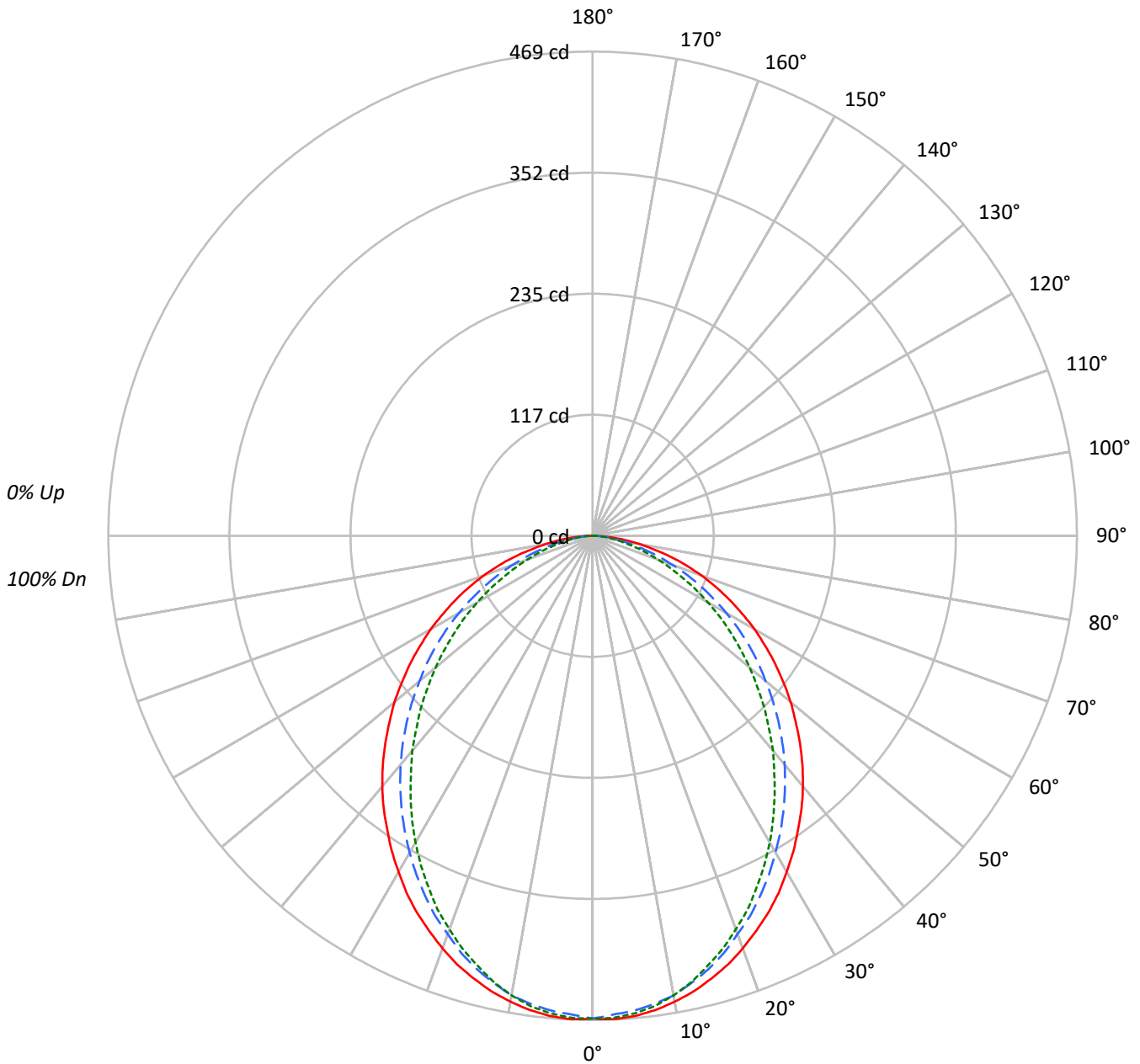
Lumens per Lamp: N/A  
Luminaire Lumens: 1105.0 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.4  
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°	7826	7826	7826
5°	7845	7755	7801
10°	7786	7682	7682
15°	7694	7526	7467
20°	7574	7310	7221
25°	7435	7096	6940
30°	7263	6846	6628
35°	7087	6588	6278
40°	6922	6320	5935
45°	6721	6018	5559
50°	6519	5693	5168
55°	6287	5383	4753
60°	6054	5000	4304
65°	5777	4561	3789
70°	5465	4007	3268
75°	5024	3381	2722
80°	4423	2660	2284
85°	3725	2170	2035



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.0	4.0
10°-20°	123.0	11.1
20°-30°	178.4	16.1
30°-40°	203.2	18.4
40°-50°	198.1	17.9
50°-60°	166.7	15.1
60°-70°	116.8	10.6
70°-80°	59.9	5.4
80°-90°	14.9	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°	345.4	31.3
0°-40°	548.6	49.6
0°-60°	913.4	82.7
0°-90°	1105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1105.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	468	468	468	468	468	
5°	467	466	462	465	464	44
15°	444	442	434	434	431	125
25°	403	397	384	380	376	185
35°	347	338	322	312	307	217
45°	284	274	254	240	235	219
55°	216	204	184	168	163	193
65°	146	134	115	101	96	144
75°	78	67	52	45	42	82
85°	19	13	11	11	11	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	467.7	467.7	467.7	467.7	467.7
2.5°	468.8	467.7	464.2	467.7	467.3
5°	467.0	465.6	461.7	465.2	464.4
7.5°	463.5	462.0	457.4	460.3	459.6
10°	458.2	457.1	452.1	453.2	452.1
12.5°	452.1	450.7	443.6	444.3	442.6
15°	444.1	441.9	434.4	434.1	431.0
17.5°	435.6	432.4	423.5	421.8	419.3
20°	425.3	421.8	410.5	408.7	405.5
22.5°	414.0	410.5	398.5	394.6	392.0
25°	402.7	397.3	384.3	379.7	375.9
27.5°	390.0	383.6	369.8	363.9	360.0
30°	375.9	369.2	354.3	346.2	343.0
32.5°	362.0	354.0	338.8	329.6	325.4
35°	346.9	338.4	322.5	312.3	307.3
37.5°	332.4	322.1	305.9	293.9	288.9
40°	316.9	306.3	289.3	275.9	271.7
42.5°	300.6	289.6	271.9	259.3	252.5
45°	284.0	273.8	254.3	240.2	234.9
47.5°	266.6	256.1	236.6	222.2	216.2
50°	250.4	238.8	218.7	203.9	198.5
52.5°	232.7	220.8	202.0	185.8	180.5
55°	215.5	204.2	184.5	168.5	162.9
57.5°	197.8	185.8	166.8	151.2	146.3
60°	180.9	168.5	149.4	133.9	128.6
62.5°	162.9	151.2	131.8	117.6	112.3
65°	145.9	133.9	115.2	101.0	95.7
67.5°	128.9	117.0	98.9	85.5	81.3
70°	111.7	99.6	81.9	71.0	66.8
72.5°	94.7	83.0	66.8	56.9	54.5
75°	77.7	67.1	52.3	44.6	42.1
77.5°	60.3	51.9	39.5	33.6	31.5
80°	45.9	37.5	27.6	24.4	23.7
82.5°	31.8	24.4	18.4	17.2	17.0
85°	19.4	13.0	11.3	10.9	10.6
87.5°	8.2	5.6	5.3	5.3	4.9
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)