

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: P888340

Luminaire Tested: **DPT5-4F021-85V60-F-XX-UDD\_3000K**

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: P888340  
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-F-XX-UDD\_3000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

**Summary**

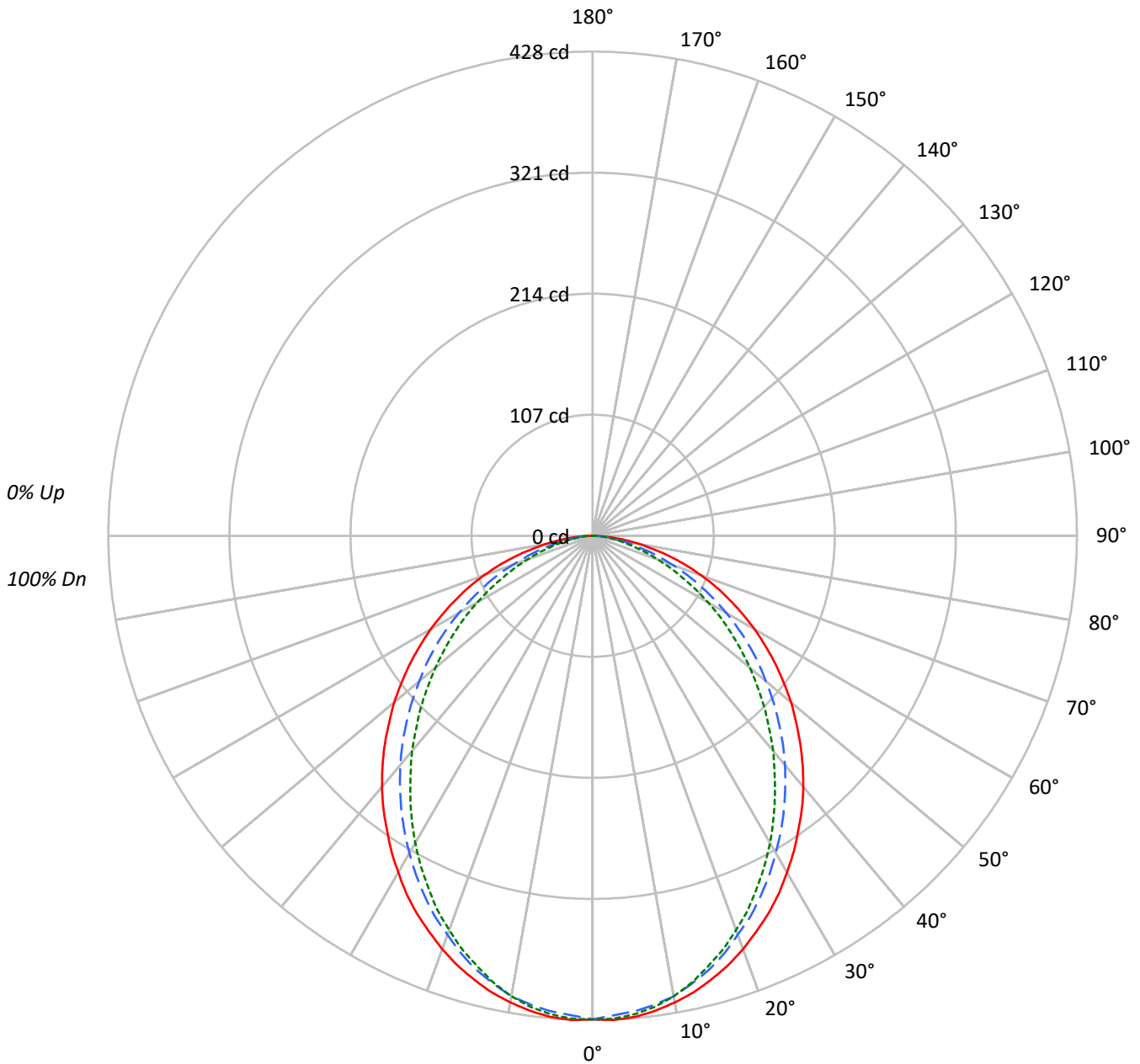
Lumens per Lamp: N/A  
Luminaire Lumens: 1010.0 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')  
CIE Type: Direct

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°	7154	7154	7154
5°	7171	7089	7131
10°	7116	7023	7023
15°	7032	6879	6824
20°	6922	6681	6601
25°	6795	6486	6342
30°	6637	6257	6058
35°	6478	6022	5738
40°	6326	5776	5424
45°	6143	5500	5081
50°	5959	5204	4725
55°	5747	4919	4344
60°	5532	4572	3932
65°	5282	4169	3461
70°	4995	3665	2984
75°	4590	3090	2489
80°	4047	2428	2091
85°	3398	1997	1862



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.2	4.0
10°-20°	112.4	11.1
20°-30°	163.0	16.1
30°-40°	185.7	18.4
40°-50°	181.0	17.9
50°-60°	152.4	15.1
60°-70°	106.8	10.6
70°-80°	54.7	5.4
80°-90°	13.7	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°	315.7	31.3
0°-40°	501.4	49.6
0°-60°	834.8	82.7
0°-90°	1010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1010.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	428	428	428	428	428	
5°	427	426	422	425	424	40
15°	406	404	397	397	394	114
25°	368	363	351	347	344	169
35°	317	309	295	285	281	199
45°	260	250	232	220	215	200
55°	197	187	169	154	149	176
65°	133	122	105	92	87	132
75°	71	61	48	41	38	75
85°	18	12	10	10	10	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	427.5	427.5	427.5	427.5	427.5
2.5°	428.5	427.5	424.3	427.5	427.2
5°	426.9	425.6	422.0	425.2	424.5
7.5°	423.6	422.3	418.1	420.7	420.1
10°	418.8	417.8	413.3	414.3	413.3
12.5°	413.3	411.9	405.5	406.1	404.6
15°	405.9	403.9	397.1	396.8	393.9
17.5°	398.1	395.2	387.1	385.5	383.3
20°	388.7	385.5	375.2	373.5	370.7
22.5°	378.4	375.2	364.3	360.7	358.3
25°	368.0	363.2	351.3	347.1	343.5
27.5°	356.5	350.6	338.0	332.6	329.0
30°	343.5	337.4	323.8	316.5	313.5
32.5°	330.9	323.5	309.6	301.3	297.4
35°	317.1	309.3	294.8	285.4	280.9
37.5°	303.8	294.4	279.6	268.7	264.1
40°	289.6	279.9	264.4	252.1	248.3
42.5°	274.7	264.7	248.6	237.0	230.8
45°	259.6	250.3	232.4	219.6	214.7
47.5°	243.7	234.1	216.3	203.1	197.6
50°	228.9	218.2	199.9	186.3	181.5
52.5°	212.7	201.8	184.6	169.8	164.9
55°	197.0	186.6	168.6	154.0	148.9
57.5°	180.8	169.8	152.4	138.2	133.7
60°	165.3	154.0	136.6	122.4	117.5
62.5°	148.9	138.2	120.4	107.5	102.7
65°	133.4	122.4	105.3	92.3	87.4
67.5°	117.8	106.9	90.4	78.2	74.3
70°	102.1	91.0	74.9	64.9	61.0
72.5°	86.5	75.9	61.0	52.0	49.8
75°	71.0	61.3	47.8	40.7	38.5
77.5°	55.2	47.4	36.1	30.7	28.7
80°	42.0	34.3	25.2	22.3	21.7
82.5°	29.0	22.3	16.8	15.8	15.5
85°	17.7	11.9	10.4	10.0	9.7
87.5°	7.5	5.2	4.9	4.9	4.5
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)