

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: P888296

Luminaire Tested: **DPT5-4F021-109V60-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: P888296  
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: DPT5-4F021-109V60-F-XX-UDD\_3000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

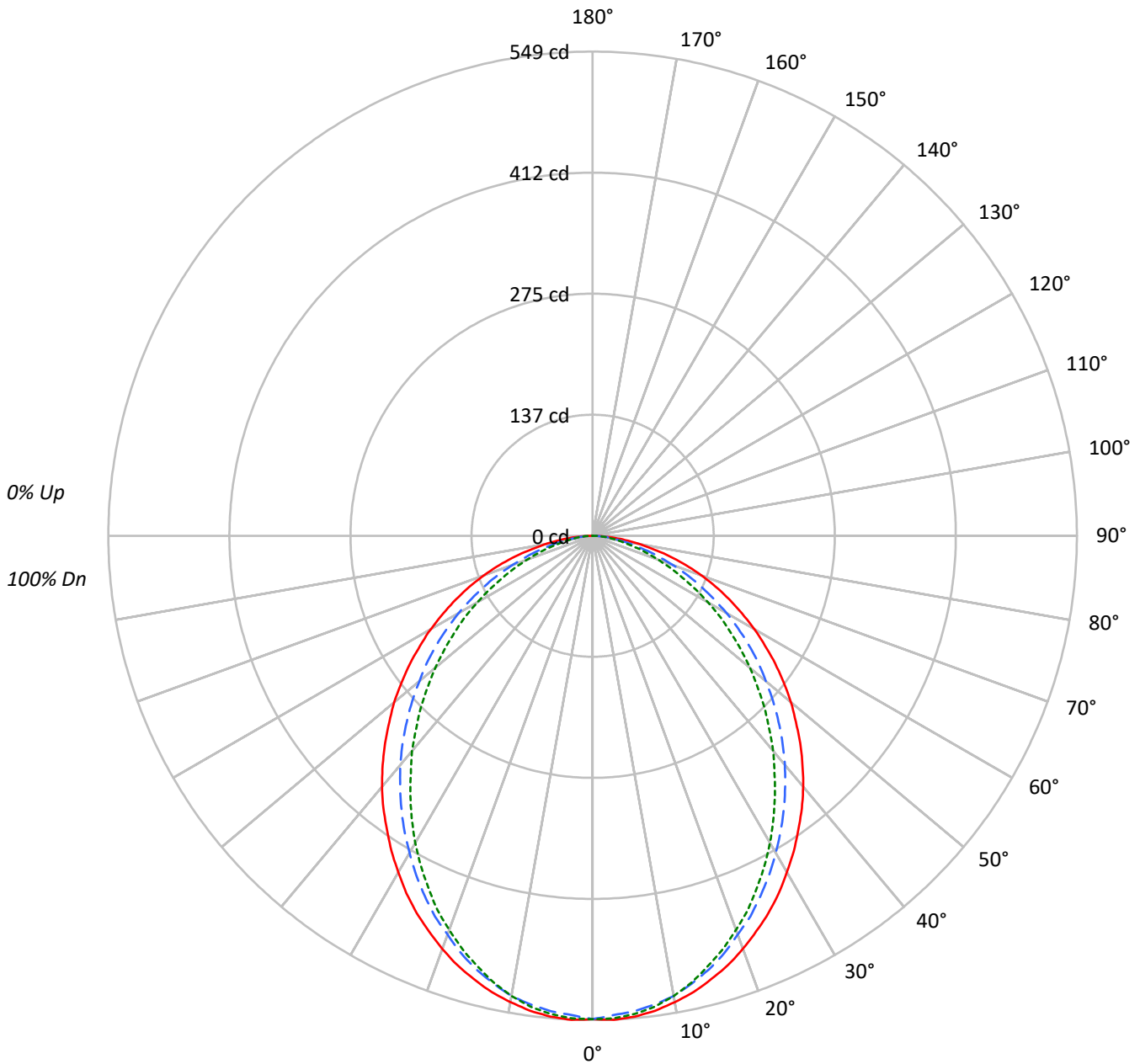
Lumens per Lamp: N/A  
Luminaire Lumens: 1295.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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°	9172	9172	9172
5°	9193	9089	9143
10°	9123	9004	9004
15°	9015	8820	8750
20°	8875	8565	8464
25°	8713	8316	8133
30°	8512	8023	7768
35°	8304	7722	7358
40°	8113	7405	6955
45°	7876	7052	6515
50°	7641	6672	6058
55°	7369	6308	5569
60°	7092	5860	5044
65°	6771	5345	4439
70°	6404	4697	3831
75°	5890	3963	3187
80°	5184	3113	2679
85°	4358	2554	2381



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.6	4.0
10°-20°	144.2	11.1
20°-30°	209.0	16.1
30°-40°	238.2	18.4
40°-50°	232.1	17.9
50°-60°	195.4	15.1
60°-70°	136.9	10.6
70°-80°	70.2	5.4
80°-90°	17.5	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°	404.8	31.3
0°-40°	642.9	49.6
0°-60°	1070.4	82.7
0°-90°	1295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1295.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	548	548	548	548	548	
5°	547	546	541	545	544	52
15°	520	518	509	509	505	147
25°	472	466	450	445	440	217
35°	406	397	378	366	360	255
45°	333	321	298	282	275	257
55°	253	239	216	198	191	226
65°	171	157	135	118	112	169
75°	91	79	61	52	49	96
85°	23	15	13	13	12	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	548.1	548.1	548.1	548.1	548.1
2.5°	549.4	548.1	544.0	548.1	547.7
5°	547.3	545.7	541.1	545.2	544.3
7.5°	543.2	541.5	536.1	539.4	538.6
10°	536.9	535.7	529.9	531.2	529.9
12.5°	529.9	528.2	519.9	520.7	518.7
15°	520.4	517.9	509.1	508.8	505.1
17.5°	510.4	506.8	496.3	494.3	491.4
20°	498.4	494.3	481.0	479.0	475.3
22.5°	485.2	481.0	467.1	462.4	459.5
25°	471.9	465.7	450.4	445.0	440.5
27.5°	457.1	449.5	433.4	426.4	421.9
30°	440.5	432.7	415.2	405.8	402.0
32.5°	424.3	414.8	397.0	386.3	381.4
35°	406.5	396.6	378.0	366.0	360.2
37.5°	389.6	377.5	358.5	344.5	338.6
40°	371.4	358.9	339.0	323.3	318.4
42.5°	352.2	339.4	318.7	303.9	296.0
45°	332.8	320.9	298.0	281.5	275.3
47.5°	312.5	300.2	277.3	260.4	253.3
50°	293.5	279.8	256.3	238.9	232.7
52.5°	272.8	258.8	236.8	217.7	211.5
55°	252.6	239.3	216.2	197.5	190.9
57.5°	231.8	217.7	195.4	177.2	171.4
60°	211.9	197.5	175.1	156.9	150.7
62.5°	190.9	177.2	154.4	137.8	131.6
65°	171.0	156.9	135.0	118.3	112.1
67.5°	151.1	137.1	115.9	100.2	95.3
70°	130.9	116.7	96.0	83.2	78.3
72.5°	111.0	97.3	78.3	66.7	63.8
75°	91.1	78.6	61.3	52.2	49.3
77.5°	70.7	60.8	46.3	39.4	36.9
80°	53.8	43.9	32.3	28.6	27.8
82.5°	37.2	28.6	21.6	20.2	19.9
85°	22.7	15.3	13.3	12.8	12.4
87.5°	9.6	6.6	6.2	6.2	5.8
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)