

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: P888322

Luminaire Tested: **DPT5-4F021-37V60-F-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: P888322  
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: DPT5-4F021-37V60-F-XX-UDD\_5000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

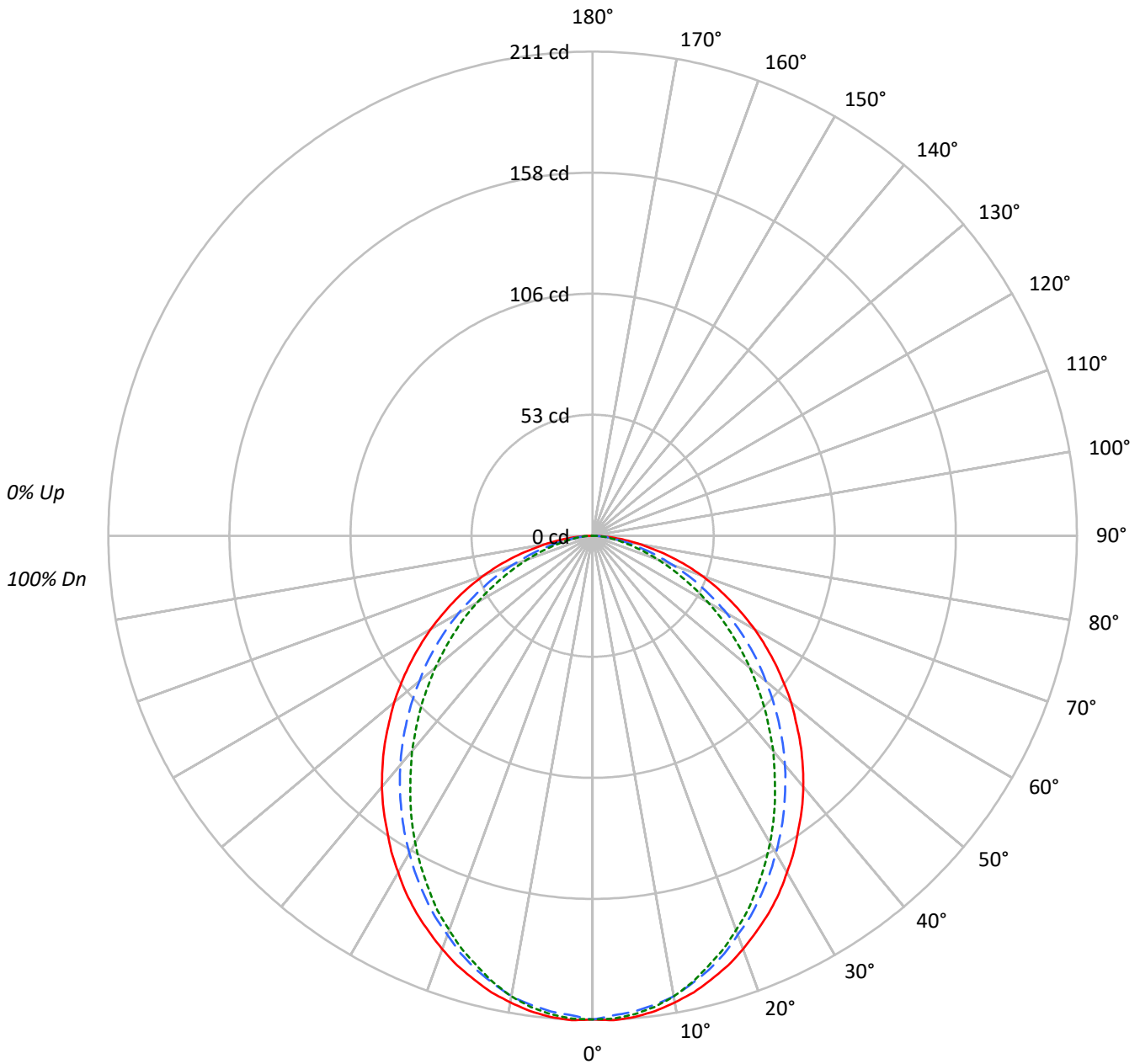
Lumens per Lamp: N/A  
Luminaire Lumens: 498.0 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')  
CIE Type: Direct

Input Watts (W): 5  
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	30																			
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°	3527	3527	3527
5°	3536	3496	3516
10°	3509	3463	3463
15°	3467	3392	3364
20°	3414	3294	3255
25°	3351	3198	3128
30°	3273	3086	2987
35°	3193	2970	2829
40°	3119	2849	2674
45°	3029	2712	2506
50°	2939	2564	2330
55°	2833	2424	2141
60°	2728	2252	1938
65°	2605	2055	1707
70°	2461	1805	1473
75°	2263	1526	1228
80°	1995	1195	1031
85°	1670	979	922



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.8	4.0
10°-20°	55.4	11.1
20°-30°	80.4	16.1
30°-40°	91.6	18.4
40°-50°	89.3	17.9
50°-60°	75.1	15.1
60°-70°	52.6	10.6
70°-80°	27.0	5.4
80°-90°	6.7	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°	155.7	31.3
0°-40°	247.3	49.7
0°-60°	411.6	82.7
0°-90°	498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	498.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	211	211	211	211	211	
5°	210	210	208	210	209	20
15°	200	199	196	196	194	56
25°	182	179	173	171	169	84
35°	156	152	145	141	138	98
45°	128	123	115	108	106	99
55°	97	92	83	76	73	87
65°	66	60	52	46	43	65
75°	35	30	24	20	19	37
85°	9	6	5	5	5	10
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	<i>210.8</i>	210.8	210.8	210.8	210.8
2.5°	<i>211.3</i>	<i>210.8</i>	<i>209.2</i>	<i>210.8</i>	<i>210.6</i>
5°	<i>210.5</i>	209.8	208.1	209.6	209.3
7.5°	<i>208.9</i>	208.2	206.2	207.4	207.1
10°	<i>206.5</i>	206.0	203.8	204.3	203.8
12.5°	<i>203.8</i>	203.1	199.9	200.3	199.5
15°	<i>200.1</i>	199.2	195.8	195.6	194.2
17.5°	<i>196.3</i>	194.9	190.9	190.1	189.0
20°	<i>191.7</i>	190.1	185.0	184.2	182.8
22.5°	<i>186.6</i>	185.0	179.6	177.8	176.7
25°	<i>181.5</i>	179.1	173.2	171.1	169.4
27.5°	<i>175.8</i>	172.9	166.7	164.0	162.2
30°	<i>169.4</i>	166.4	159.7	156.0	154.6
32.5°	<i>163.2</i>	159.5	152.7	148.5	146.7
35°	<i>156.3</i>	152.5	145.4	140.7	138.5
37.5°	<i>149.8</i>	145.2	137.9	132.5	130.2
40°	<i>142.8</i>	138.0	130.4	124.3	122.4
42.5°	<i>135.5</i>	130.5	122.6	116.9	113.8
45°	<i>128.0</i>	123.4	114.6	108.3	105.9
47.5°	<i>120.2</i>	115.4	106.6	100.1	97.4
50°	<i>112.9</i>	107.6	98.5	91.9	89.5
52.5°	<i>104.9</i>	99.5	91.0	83.7	81.3
55°	<i>97.1</i>	92.0	83.1	76.0	73.4
57.5°	<i>89.2</i>	83.7	75.2	68.1	65.9
60°	<i>81.5</i>	76.0	67.3	60.3	57.9
62.5°	<i>73.4</i>	68.1	59.4	53.0	50.6
65°	<i>65.8</i>	60.3	51.9	45.5	43.1
67.5°	<i>58.1</i>	52.7	44.6	38.5	36.6
70°	<i>50.3</i>	44.9	36.9	32.0	30.1
72.5°	<i>42.7</i>	37.4	30.1	25.6	24.5
75°	<i>35.0</i>	30.2	23.6	20.1	19.0
77.5°	<i>27.2</i>	23.4	17.8	15.1	14.2
80°	<i>20.7</i>	16.9	12.4	11.0	10.7
82.5°	<i>14.3</i>	11.0	8.3	7.8	7.6
85°	<i>8.7</i>	5.9	5.1	4.9	4.8
87.5°	<i>3.7</i>	2.5	2.4	2.4	2.2
90°	<i>0.0</i>	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)