

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: P888399

Luminaire Tested: **DPT5-4F029-85V60-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: P888399  
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: DPT5-4F029-85V60-F-XX-UDD\_5000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

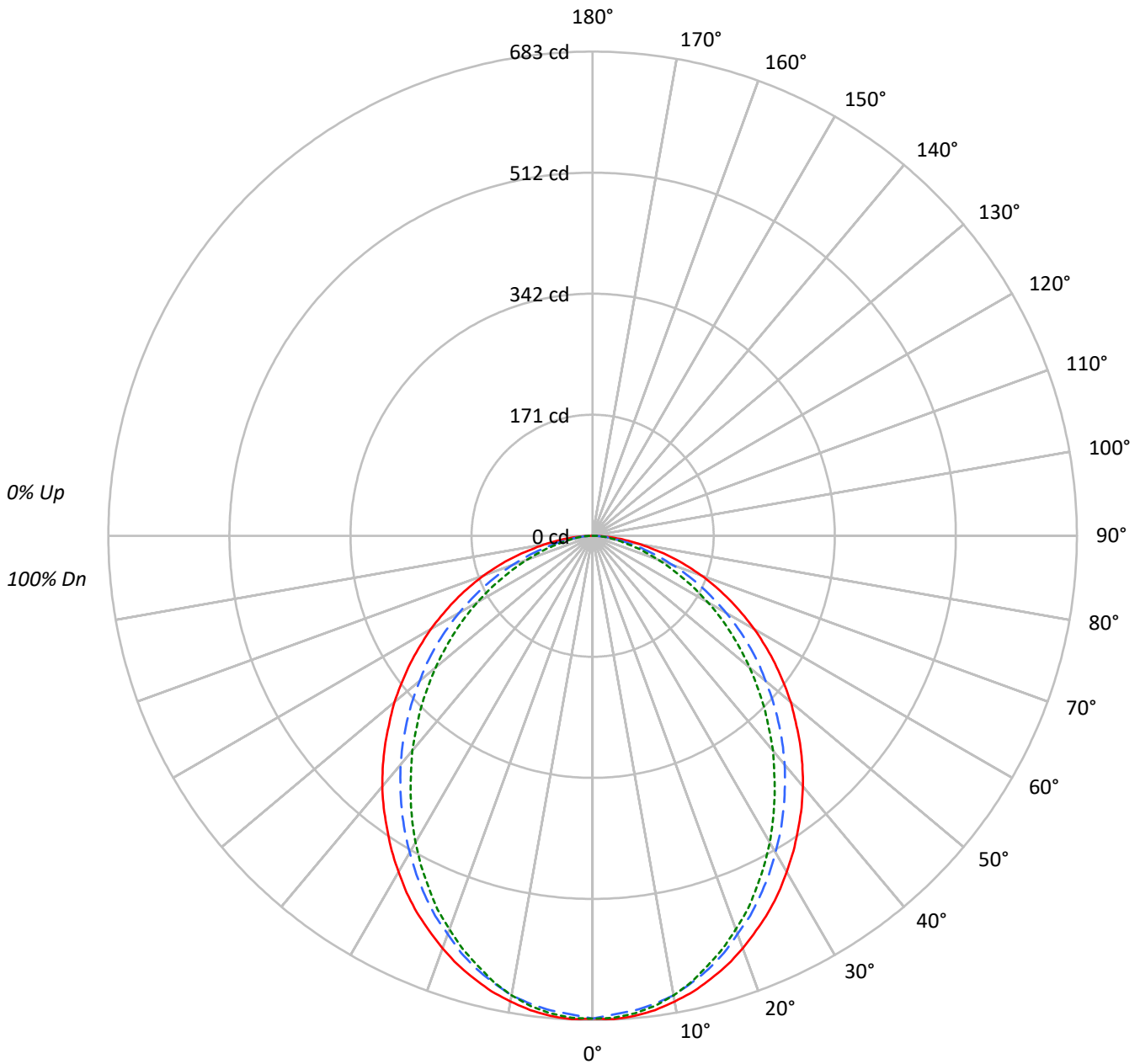
Lumens per Lamp: N/A  
Luminaire Lumens: 1609.0 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.1  
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°	8112	8112	8112
5°	8129	8037	8085
10°	8067	7961	7961
15°	7972	7800	7737
20°	7848	7575	7484
25°	7704	7354	7192
30°	7526	7095	6869
35°	7344	6827	6506
40°	7173	6548	6150
45°	6964	6237	5762
50°	6757	5899	5356
55°	6516	5577	4925
60°	6272	5181	4459
65°	5988	4726	3926
70°	5662	4154	3385
75°	5209	3502	2821
80°	4588	2757	2366
85°	3853	2255	2118



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	4.0
10°-20°	179.1	11.1
20°-30°	259.7	16.1
30°-40°	295.9	18.4
40°-50°	288.4	17.9
50°-60°	242.7	15.1
60°-70°	170.1	10.6
70°-80°	87.2	5.4
80°-90°	21.7	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°	502.9	31.3
0°-40°	798.8	49.6
0°-60°	1330.0	82.7
0°-90°	1609.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1609.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	680	678	672	677	676	64
15°	647	644	633	632	628	182
25°	586	579	560	553	547	270
35°	505	493	470	455	448	316
45°	414	399	370	350	342	319
55°	314	297	269	245	237	281
65°	212	195	168	147	139	210
75°	113	98	76	65	61	120
85°	28	19	16	16	16	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	681.1	681.1	681.1	681.1	681.1
2.5°	682.6	681.1	675.9	681.1	680.5
5°	680.0	678.0	672.3	677.3	676.3
7.5°	674.9	672.8	666.1	670.2	669.2
10°	667.1	665.6	658.3	660.0	658.3
12.5°	658.3	656.2	645.9	647.0	644.5
15°	646.6	643.5	632.6	632.1	627.5
17.5°	634.2	629.6	616.7	614.2	610.5
20°	619.2	614.2	597.7	595.1	590.5
22.5°	602.8	597.7	580.3	574.6	570.9
25°	586.3	578.6	559.6	552.9	547.3
27.5°	567.9	558.5	538.5	529.8	524.2
30°	547.3	537.6	515.9	504.2	499.5
32.5°	527.2	515.4	493.3	479.9	473.8
35°	505.1	492.8	469.6	454.7	447.5
37.5°	484.0	469.0	445.4	428.0	420.7
40°	461.4	446.0	421.2	401.7	395.6
42.5°	437.7	421.7	396.0	377.5	367.7
45°	413.5	398.7	370.3	349.8	342.1
47.5°	388.2	373.0	344.5	323.5	314.8
50°	364.7	347.7	318.4	296.8	289.1
52.5°	338.9	321.5	294.2	270.5	262.8
55°	313.8	297.3	268.6	245.4	237.2
57.5°	288.1	270.5	242.8	220.1	213.0
60°	263.3	245.4	217.5	194.9	187.2
62.5°	237.2	220.1	191.9	171.3	163.5
65°	212.5	194.9	167.7	147.0	139.3
67.5°	187.7	170.3	144.0	124.5	118.4
70°	162.6	145.0	119.3	103.3	97.2
72.5°	137.9	120.9	97.2	82.8	79.3
75°	113.2	97.7	76.1	64.9	61.3
77.5°	87.9	75.6	57.5	48.9	45.8
80°	66.9	54.6	40.2	35.5	34.5
82.5°	46.3	35.5	26.8	25.1	24.7
85°	28.2	19.0	16.5	15.9	15.5
87.5°	11.9	8.2	7.7	7.7	7.2
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)