

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: P888371

Luminaire Tested: **DPT5-4F029-37S40-F-XX-UDD**

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: P888371  
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: DPT5-4F029-37S40-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

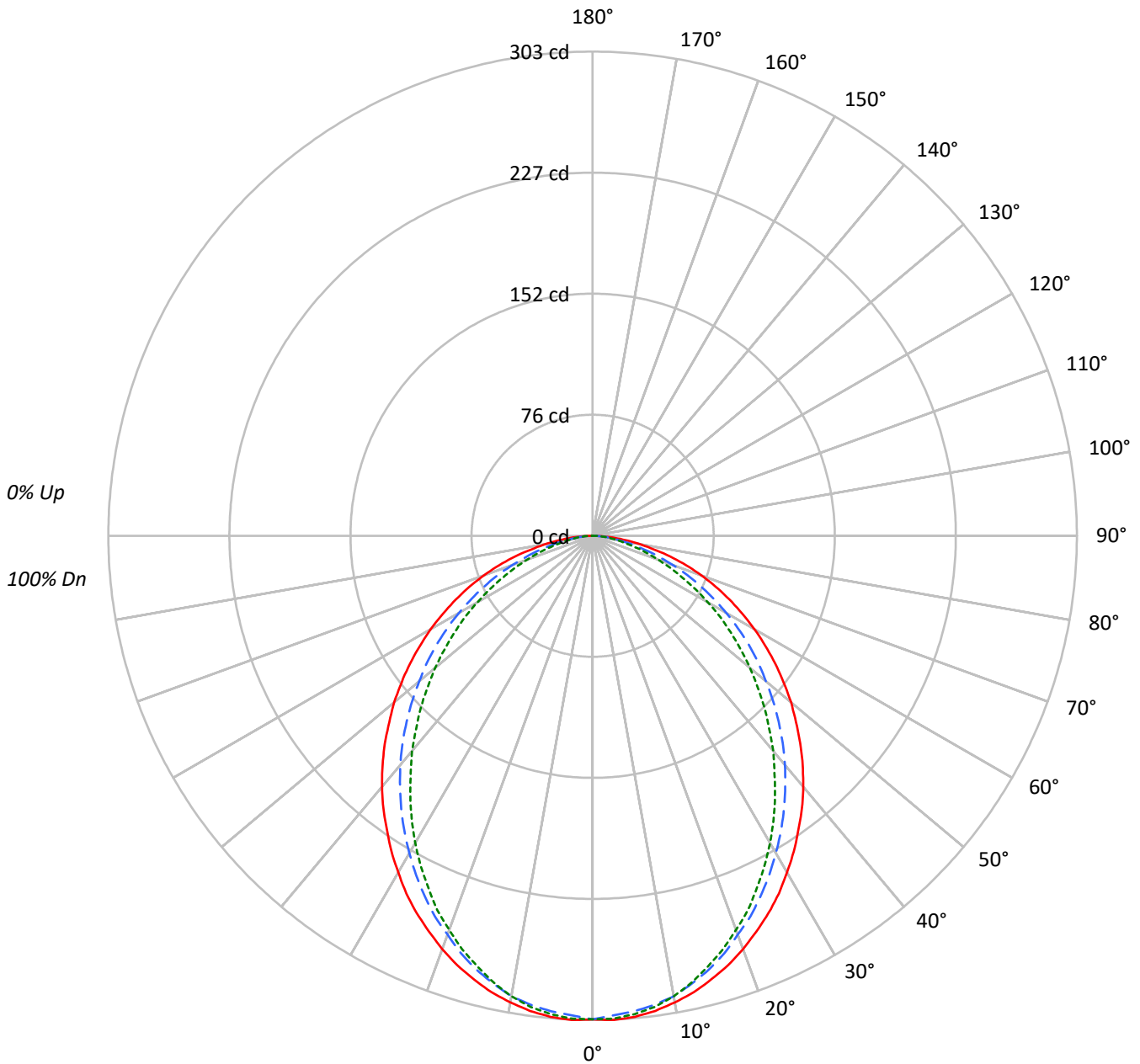
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 715.0 lumens  
Efficiency: N/A  
Efficacy: 102.1 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): 7  
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°	3604	3604	3604
5°	3613	3571	3593
10°	3586	3539	3539
15°	3542	3466	3439
20°	3488	3366	3326
25°	3423	3268	3196
30°	3344	3153	3053
35°	3264	3034	2892
40°	3187	2910	2733
45°	3096	2772	2560
50°	3002	2622	2381
55°	2897	2479	2189
60°	2787	2303	1982
65°	2660	2099	1744
70°	2514	1846	1504
75°	2315	1555	1252
80°	2037	1228	1049
85°	1722	998	943



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.5	4.0
10°-20°	79.6	11.1
20°-30°	115.4	16.1
30°-40°	131.5	18.4
40°-50°	128.2	17.9
50°-60°	107.9	15.1
60°-70°	75.6	10.6
70°-80°	38.8	5.4
80°-90°	9.7	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°	223.5	31.3
0°-40°	355.0	49.6
0°-60°	591.0	82.7
0°-90°	715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	715.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	303	303	303	303	303	
5°	302	301	299	301	300	29
15°	287	286	281	281	279	81
25°	260	257	249	246	243	120
35°	224	219	209	202	199	141
45°	184	177	165	155	152	142
55°	140	132	119	109	105	125
65°	94	87	74	65	62	93
75°	50	43	34	29	27	53
85°	13	8	7	7	7	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	302.6	302.6	302.6	302.6	302.6
2.5°	303.3	302.6	300.4	302.6	302.4
5°	302.2	301.3	298.7	301.0	300.5
7.5°	299.9	299.0	296.0	297.8	297.4
10°	296.5	295.8	292.6	293.3	292.6
12.5°	292.6	291.6	287.0	287.5	286.4
15°	287.3	285.9	281.1	280.9	278.9
17.5°	281.8	279.8	274.0	272.9	271.3
20°	275.2	272.9	265.6	264.4	262.4
22.5°	267.9	265.6	257.9	255.3	253.7
25°	260.5	257.1	248.7	245.7	243.2
27.5°	252.4	248.2	239.3	235.4	232.9
30°	243.2	238.9	229.3	224.0	222.0
32.5°	234.3	229.0	219.2	213.3	210.6
35°	224.5	219.0	208.7	202.1	198.9
37.5°	215.1	208.4	197.9	190.2	186.9
40°	205.0	198.2	187.2	178.5	175.8
42.5°	194.5	187.4	176.0	167.8	163.4
45°	183.8	177.2	164.6	155.4	152.0
47.5°	172.5	165.7	153.1	143.8	139.9
50°	162.0	154.5	141.5	131.9	128.5
52.5°	150.6	142.9	130.7	120.2	116.8
55°	139.5	132.1	119.4	109.1	105.4
57.5°	128.0	120.2	107.9	97.8	94.6
60°	117.0	109.1	96.7	86.6	83.2
62.5°	105.4	97.8	85.3	76.1	72.7
65°	94.4	86.6	74.5	65.3	61.9
67.5°	83.4	75.7	64.0	55.3	52.6
70°	72.2	64.4	53.0	45.9	43.2
72.5°	61.3	53.7	43.2	36.8	35.2
75°	50.3	43.4	33.8	28.8	27.2
77.5°	39.0	33.6	25.6	21.8	20.4
80°	29.7	24.3	17.9	15.8	15.3
82.5°	20.6	15.8	11.9	11.2	11.0
85°	12.6	8.4	7.3	7.1	6.9
87.5°	5.3	3.6	3.4	3.4	3.2
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)