

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: P888375

Luminaire Tested: **DPT5-4F029-37V60-F-XX-UDD\_4000K**

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: P888375  
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: DPT5-4F029-37V60-F-XX-UDD\_4000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

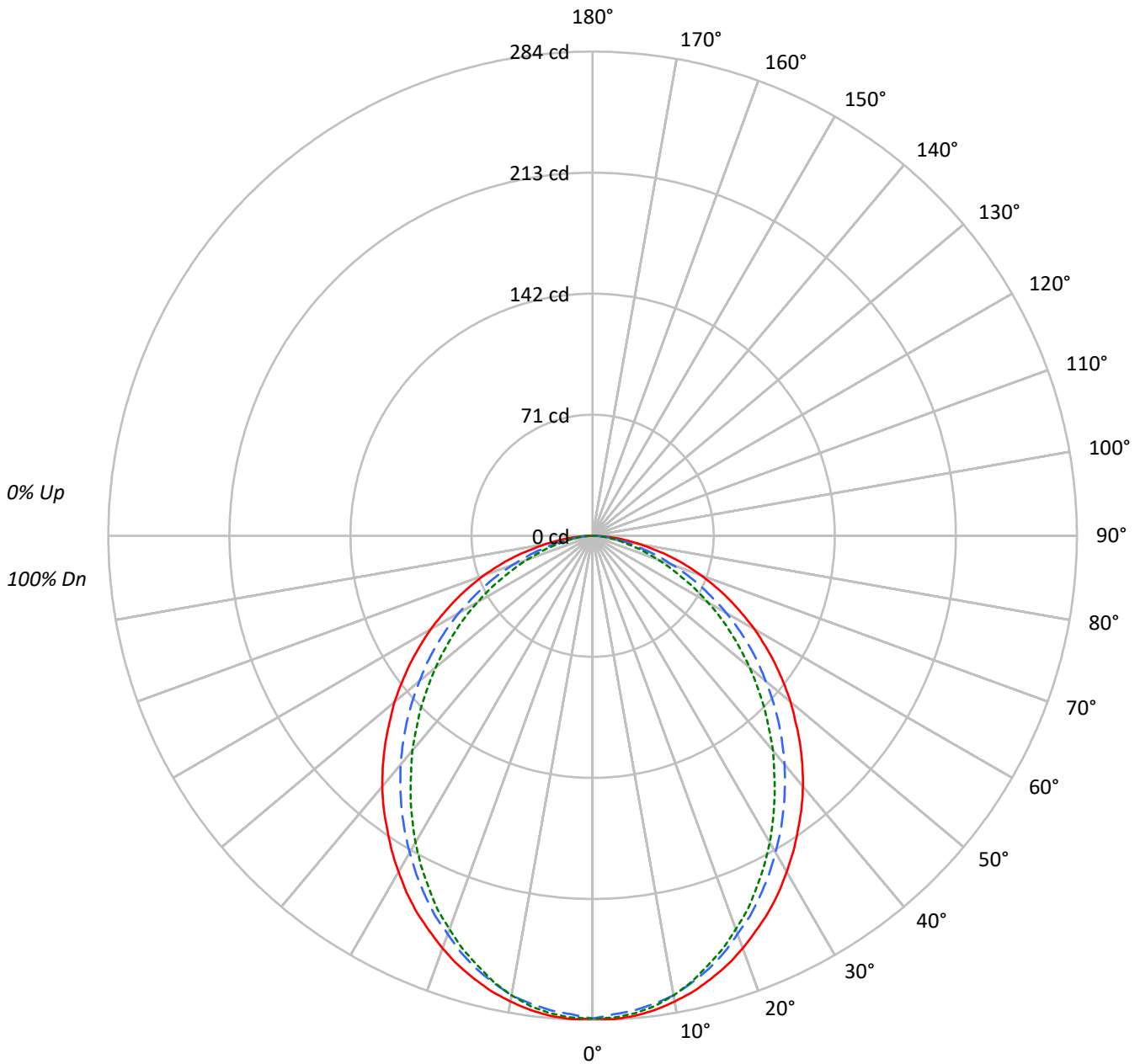
Lumens per Lamp: N/A  
Luminaire Lumens: 669.0 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

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°	3373	3373	3373
5°	3380	3341	3362
10°	3355	3310	3310
15°	3315	3243	3217
20°	3264	3149	3111
25°	3204	3058	2991
30°	3130	2950	2856
35°	3053	2839	2706
40°	2983	2722	2557
45°	2895	2594	2395
50°	2809	2453	2227
55°	2710	2319	2047
60°	2608	2156	1853
65°	2488	1964	1632
70°	2354	1727	1407
75°	2167	1459	1173
80°	1907	1145	988
85°	1599	943	875



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.6	4.0
10°-20°	74.5	11.1
20°-30°	108.0	16.1
30°-40°	123.0	18.4
40°-50°	119.9	17.9
50°-60°	100.9	15.1
60°-70°	70.7	10.6
70°-80°	36.3	5.4
80°-90°	9.0	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°	209.1	31.3
0°-40°	332.1	49.6
0°-60°	553.0	82.7
0°-90°	669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	669.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	283	283	283	283	283	
5°	283	282	280	282	281	27
15°	269	268	263	263	261	76
25°	244	241	233	230	228	112
35°	210	205	195	189	186	132
45°	172	166	154	145	142	133
55°	130	124	112	102	99	117
65°	88	81	70	61	58	87
75°	47	41	32	27	26	50
85°	12	8	7	7	6	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	283.2	283.2	283.2	283.2	283.2
2.5°	283.8	283.2	281.0	283.2	282.9
5°	282.7	281.9	279.5	281.6	281.2
7.5°	280.6	279.7	276.9	278.7	278.3
10°	277.4	276.7	273.7	274.4	273.7
12.5°	273.7	272.9	268.6	269.0	268.0
15°	268.9	267.5	263.0	262.8	260.9
17.5°	263.7	261.8	256.4	255.4	253.9
20°	257.5	255.4	248.5	247.4	245.5
22.5°	250.6	248.5	241.3	238.9	237.4
25°	243.8	240.6	232.7	229.9	227.6
27.5°	236.1	232.2	223.9	220.3	218.0
30°	227.6	223.5	214.5	209.6	207.7
32.5°	219.2	214.3	205.1	199.5	197.0
35°	210.0	204.9	195.3	189.1	186.1
37.5°	201.3	195.0	185.2	178.0	174.9
40°	191.9	185.4	175.1	167.0	164.5
42.5°	182.0	175.3	164.6	157.0	152.9
45°	171.9	165.8	154.0	145.4	142.2
47.5°	161.4	155.1	143.3	134.5	130.9
50°	151.6	144.6	132.4	123.4	120.2
52.5°	140.9	133.7	122.3	112.5	109.3
55°	130.5	123.6	111.7	102.0	98.6
57.5°	119.8	112.5	101.0	91.5	88.5
60°	109.5	102.0	90.5	81.0	77.8
62.5°	98.6	91.5	79.8	71.2	68.0
65°	88.3	81.0	69.7	61.1	57.9
67.5°	78.0	70.8	59.9	51.8	49.2
70°	67.6	60.3	49.6	43.0	40.4
72.5°	57.3	50.3	40.4	34.4	33.0
75°	47.1	40.6	31.7	27.0	25.5
77.5°	36.5	31.4	23.9	20.4	19.0
80°	27.8	22.7	16.7	14.8	14.4
82.5°	19.2	14.8	11.1	10.4	10.3
85°	11.7	7.9	6.9	6.6	6.4
87.5°	5.0	3.4	3.2	3.2	3.0
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)