

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: P888378

Luminaire Tested: **DPT5-4F029-37V60-F-XX-UDD\_6500K**

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: P888378  
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\_6500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

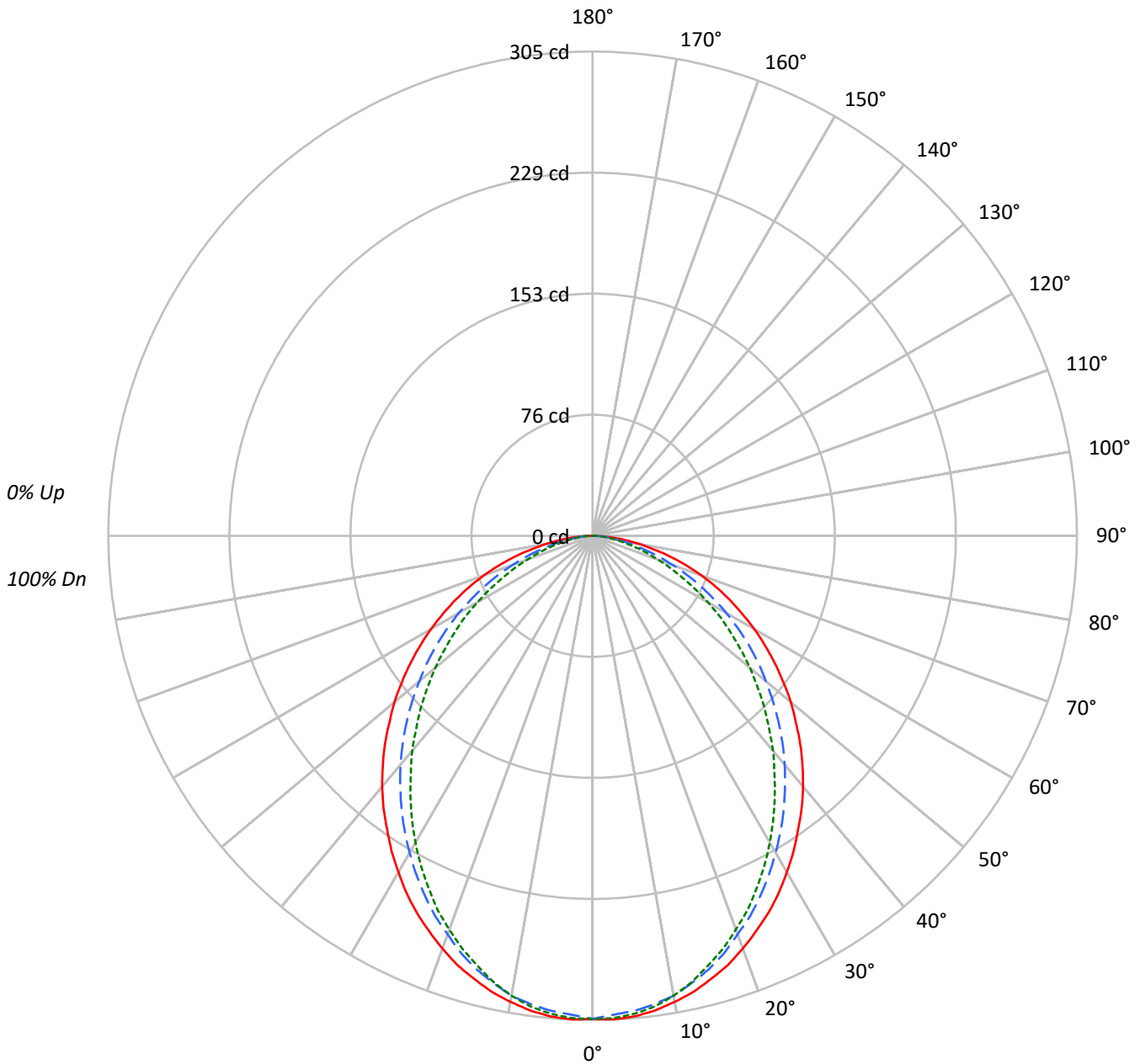
Lumens per Lamp: N/A  
Luminaire Lumens: 719.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

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				20				
RC	80				70				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°	3624	3624	3624
5°	3633	3591	3613
10°	3605	3558	3558
15°	3562	3486	3457
20°	3507	3385	3345
25°	3443	3287	3214
30°	3364	3170	3069
35°	3281	3052	2908
40°	3206	2926	2749
45°	3113	2787	2575
50°	3020	2637	2394
55°	2911	2492	2201
60°	2804	2315	1994
65°	2677	2114	1753
70°	2532	1856	1511
75°	2328	1565	1261
80°	2051	1228	1056
85°	1722	1011	943



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.6	4.0
10°-20°	80.0	11.1
20°-30°	116.1	16.1
30°-40°	132.2	18.4
40°-50°	128.9	17.9
50°-60°	108.5	15.1
60°-70°	76.0	10.6
70°-80°	39.0	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°	224.7	31.3
0°-40°	357.0	49.6
0°-60°	594.3	82.7
0°-90°	719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	719.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	304	303	300	303	302	29
15°	289	288	283	282	280	81
25°	262	258	250	247	245	121
35°	226	220	210	203	200	141
45°	185	178	166	156	153	143
55°	140	133	120	110	106	125
65°	95	87	75	66	62	94
75°	51	44	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°	304.3	304.3	304.3	304.3	304.3
2.5°	305.0	304.3	302.0	304.3	304.1
5°	303.9	303.0	300.4	302.7	302.2
7.5°	301.6	300.6	297.6	299.5	299.1
10°	298.1	297.4	294.2	294.9	294.2
12.5°	294.2	293.3	288.6	289.1	288.0
15°	288.9	287.5	282.7	282.5	280.4
17.5°	283.4	281.4	275.6	274.5	272.8
20°	276.7	274.5	267.1	265.9	263.9
22.5°	269.4	267.1	259.3	256.8	255.1
25°	262.0	258.5	250.1	247.1	244.6
27.5°	253.8	249.6	240.6	236.8	234.2
30°	244.6	240.2	230.5	225.3	223.2
32.5°	235.6	230.3	220.4	214.5	211.7
35°	225.7	220.2	209.9	203.2	200.0
37.5°	216.3	209.6	199.0	191.3	188.0
40°	206.2	199.3	188.2	179.5	176.8
42.5°	195.6	188.5	176.9	168.7	164.3
45°	184.8	178.2	165.5	156.3	152.9
47.5°	173.5	166.7	154.0	144.6	140.7
50°	163.0	155.4	142.3	132.6	129.2
52.5°	151.4	143.7	131.4	120.9	117.4
55°	140.2	132.9	120.0	109.7	106.0
57.5°	128.7	120.9	108.5	98.4	95.2
60°	117.7	109.7	97.2	87.1	83.7
62.5°	106.0	98.4	85.7	76.5	73.1
65°	95.0	87.1	75.0	65.7	62.2
67.5°	83.9	76.1	64.3	55.6	52.9
70°	72.7	64.8	53.3	46.2	43.4
72.5°	61.6	54.0	43.4	37.0	35.4
75°	50.6	43.7	34.0	29.0	27.4
77.5°	39.3	33.8	25.7	21.9	20.5
80°	29.9	24.4	17.9	15.9	15.4
82.5°	20.7	15.9	12.0	11.2	11.0
85°	12.6	8.5	7.4	7.1	6.9
87.5°	5.3	3.7	3.5	3.5	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)