

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: P888455

Luminaire Tested: **DPT5-6FO36-85V60-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: P888455  
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: DPT5-6FO36-85V60-F-XX-UDD\_6500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

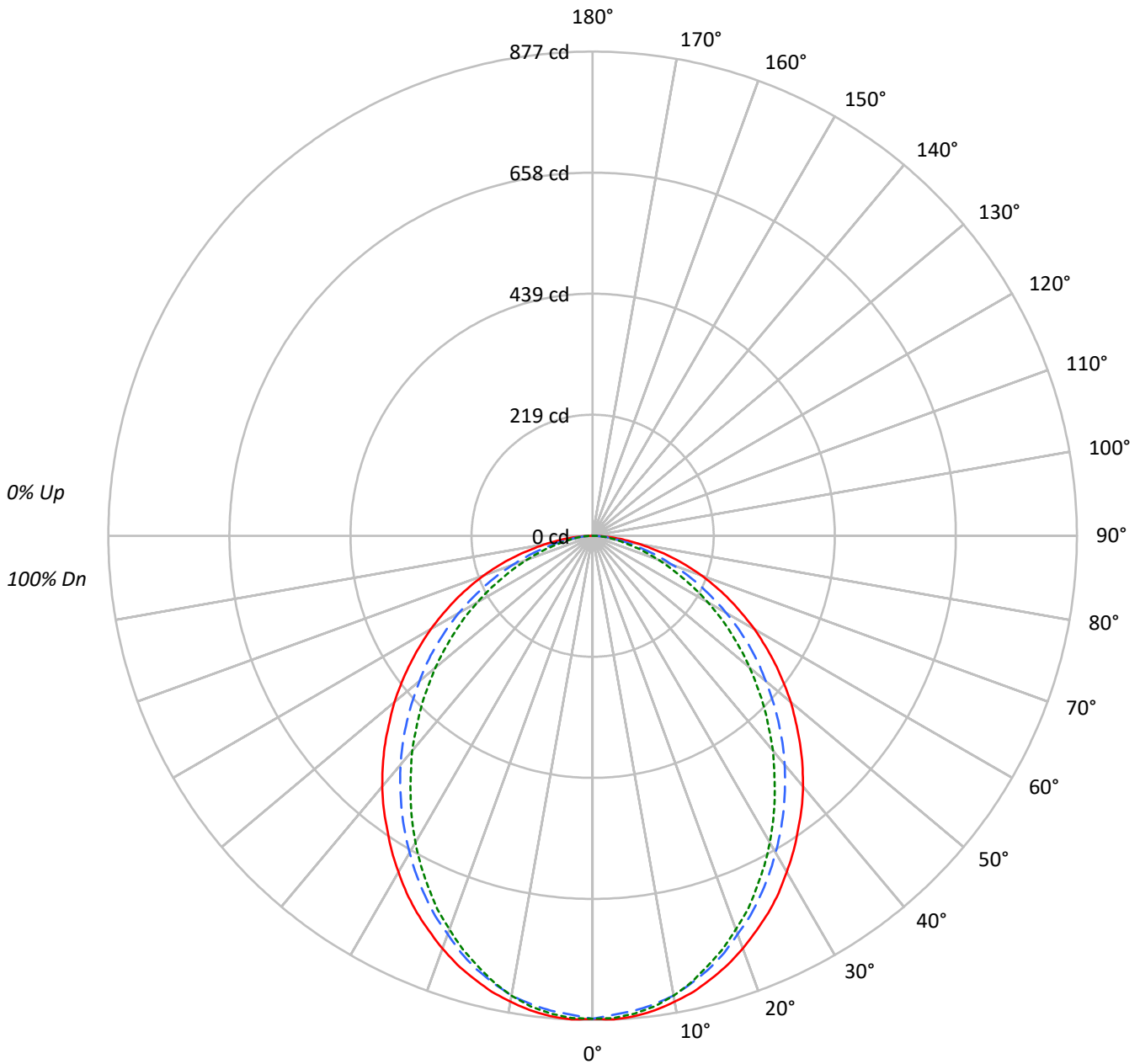
Lumens per Lamp: N/A  
Luminaire Lumens: 2067.0 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.1  
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°	8321	8321	8321
5°	8340	8245	8294
10°	8276	8167	8167
15°	8179	8002	7938
20°	8051	7771	7678
25°	7904	7544	7378
30°	7721	7278	7047
35°	7534	7004	6675
40°	7360	6719	6309
45°	7145	6398	5910
50°	6932	6051	5495
55°	6684	5720	5052
60°	6435	5316	4575
65°	6144	4850	4028
70°	5809	4260	3473
75°	5343	3594	2892
80°	4705	2826	2432
85°	3961	2313	2172



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.3	4.0
10°-20°	230.1	11.1
20°-30°	333.6	16.1
30°-40°	380.1	18.4
40°-50°	370.5	17.9
50°-60°	311.8	15.1
60°-70°	218.5	10.6
70°-80°	112.0	5.4
80°-90°	27.9	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°	646.1	31.3
0°-40°	1026.2	49.6
0°-60°	1708.5	82.7
0°-90°	2067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2067.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	874	871	864	870	869	83
15°	831	827	813	812	806	234
25°	753	743	719	710	703	347
35°	649	633	603	584	575	406
45°	531	512	476	449	439	410
55°	403	382	345	315	305	360
65°	273	250	216	189	179	270
75°	145	126	98	83	79	154
85°	36	24	21	20	20	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	874.9	874.9	874.9	874.9	874.9
2.5°	876.9	874.9	868.3	874.9	874.2
5°	873.6	871.0	863.6	870.1	868.8
7.5°	867.0	864.3	855.7	860.9	859.7
10°	857.0	855.1	845.7	847.8	845.7
12.5°	845.7	843.1	829.8	831.2	828.0
15°	830.7	826.6	812.7	812.0	806.2
17.5°	814.7	808.9	792.2	789.0	784.3
20°	795.5	789.0	767.8	764.5	758.6
22.5°	774.4	767.8	745.5	738.1	733.3
25°	753.2	743.3	718.9	710.3	703.1
27.5°	729.5	717.5	691.8	680.6	673.4
30°	703.1	690.6	662.7	647.7	641.7
32.5°	677.2	662.1	633.7	616.5	608.7
35°	648.9	633.1	603.3	584.2	574.9
37.5°	621.8	602.6	572.2	549.9	540.4
40°	592.8	572.9	541.2	516.0	508.2
42.5°	562.2	541.8	508.7	485.0	472.4
45°	531.2	512.2	475.7	449.3	439.4
47.5°	498.7	479.1	442.6	415.6	404.4
50°	468.5	446.7	409.0	381.3	371.4
52.5°	435.4	413.1	377.9	347.5	337.6
55°	403.1	381.9	345.0	315.3	304.7
57.5°	370.0	347.5	311.9	282.8	273.6
60°	338.3	315.3	279.5	250.4	240.5
62.5°	304.7	282.8	246.5	220.0	210.1
65°	273.0	250.4	215.5	188.9	179.0
67.5°	241.1	218.8	185.0	160.0	152.1
70°	208.9	186.3	153.2	132.7	124.9
72.5°	177.1	155.3	124.9	106.4	101.9
75°	145.4	125.5	97.8	83.3	78.7
77.5°	112.9	97.1	73.9	62.9	58.8
80°	85.9	70.1	51.6	45.6	44.4
82.5°	59.4	45.6	34.4	32.2	31.7
85°	36.3	24.4	21.2	20.5	19.9
87.5°	15.3	10.5	9.9	9.9	9.2
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)