

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: P888451

Luminaire Tested: **DPT5-6FO36-85V60-F-XX-UDD\_3500K**

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: P888451  
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\_3500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

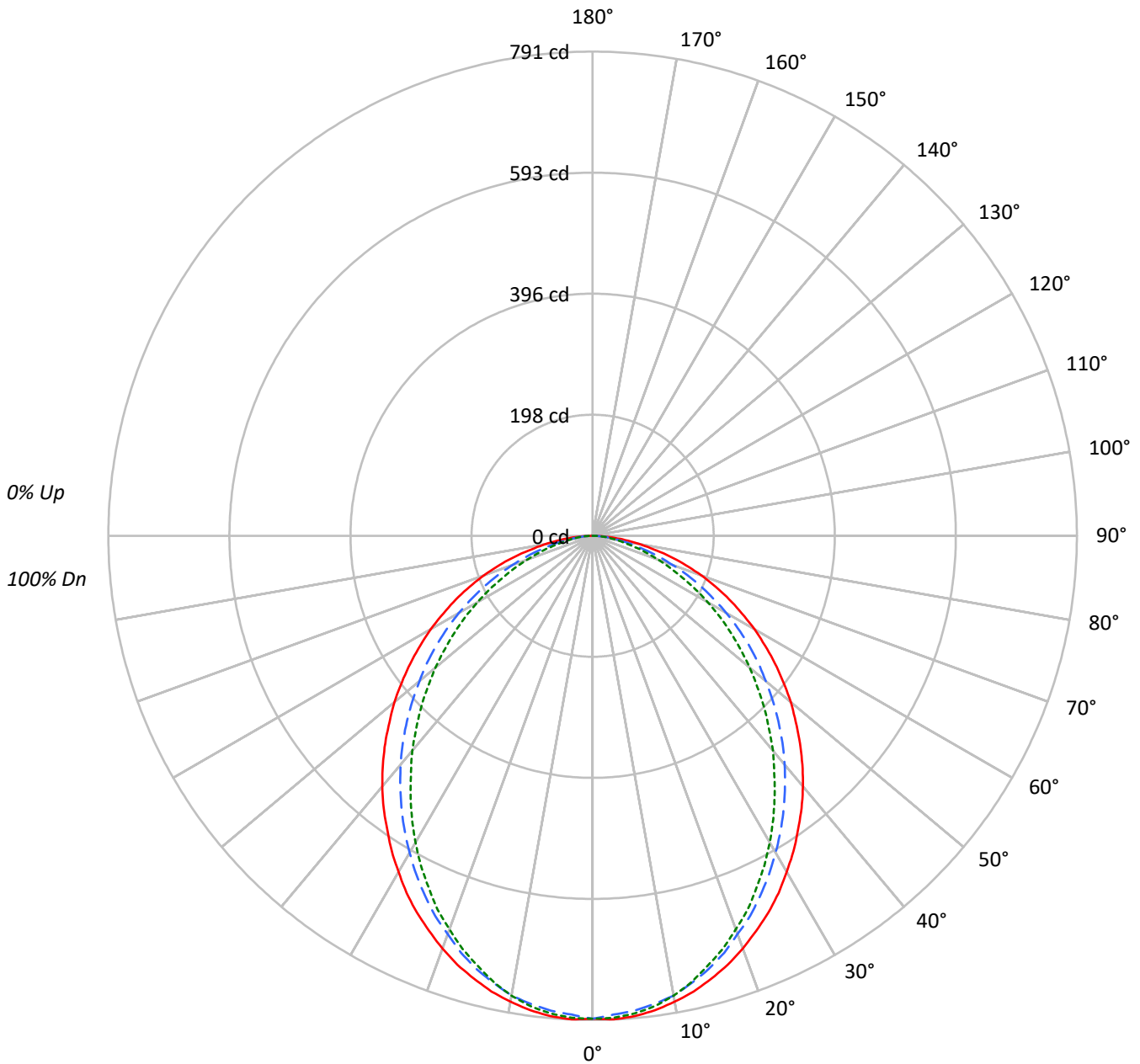
Lumens per Lamp: N/A  
Luminaire Lumens: 1864.0 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')  
CIE Type: Direct

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°	7504	7504	7504
5°	7521	7435	7480
10°	7464	7366	7366
15°	7376	7215	7158
20°	7261	7008	6924
25°	7127	6803	6653
30°	6962	6564	6354
35°	6794	6316	6019
40°	6636	6059	5690
45°	6444	5770	5330
50°	6251	5458	4955
55°	6027	5160	4556
60°	5803	4793	4126
65°	5540	4373	3632
70°	5239	3843	3131
75°	4817	3241	2609
80°	4245	2547	2191
85°	3568	2084	1953



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.3	4.0
10°-20°	207.5	11.1
20°-30°	300.9	16.1
30°-40°	342.8	18.4
40°-50°	334.1	17.9
50°-60°	281.2	15.1
60°-70°	197.0	10.6
70°-80°	101.0	5.4
80°-90°	25.2	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°	582.6	31.3
0°-40°	925.4	49.6
0°-60°	1540.7	82.7
0°-90°	1864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1864.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	789	789	789	789	789	
5°	788	786	779	785	784	75
15°	749	745	733	732	727	211
25°	679	670	648	640	634	313
35°	585	571	544	527	518	366
45°	479	462	429	405	396	369
55°	364	344	311	284	275	325
65°	246	226	194	170	161	244
75°	131	113	88	75	71	139
85°	33	22	19	18	18	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	789.0	789.0	789.0	789.0	789.0
2.5°	790.8	789.0	783.0	789.0	788.3
5°	787.8	785.5	778.8	784.7	783.5
7.5°	781.8	779.4	771.6	776.4	775.3
10°	772.9	771.1	762.7	764.6	762.7
12.5°	762.7	760.3	748.3	749.5	746.7
15°	749.1	745.4	732.8	732.3	727.0
17.5°	734.7	729.4	714.4	711.5	707.3
20°	717.4	711.5	692.4	689.4	684.1
22.5°	698.4	692.4	672.3	665.6	661.3
25°	679.2	670.3	648.3	640.5	634.0
27.5°	657.9	647.1	623.9	613.8	607.3
30°	634.0	622.8	597.7	584.1	578.6
32.5°	610.7	597.1	571.5	556.0	548.9
35°	585.2	570.9	544.0	526.8	518.4
37.5°	560.7	543.4	516.0	495.9	487.3
40°	534.5	516.6	488.0	465.3	458.3
42.5°	507.0	488.6	458.7	437.4	426.0
45°	479.1	461.9	429.0	405.2	396.3
47.5°	449.8	432.1	399.1	374.8	364.7
50°	422.5	402.8	368.9	343.9	334.9
52.5°	392.6	372.5	340.8	313.4	304.4
55°	363.5	344.4	311.2	284.3	274.8
57.5°	333.7	313.4	281.3	255.0	246.7
60°	305.1	284.3	252.0	225.8	216.9
62.5°	274.8	255.0	222.3	198.4	189.5
65°	246.2	225.8	194.3	170.3	161.4
67.5°	217.4	197.3	166.8	144.2	137.2
70°	188.4	168.0	138.2	119.7	112.6
72.5°	159.7	140.0	112.6	95.9	91.9
75°	131.1	113.2	88.2	75.2	71.0
77.5°	101.8	87.5	66.7	56.7	53.1
80°	77.5	63.2	46.5	41.1	40.0
82.5°	53.6	41.1	31.1	29.1	28.6
85°	32.7	22.0	19.1	18.5	17.9
87.5°	13.8	9.5	9.0	9.0	8.3
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)