

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: P888454

Luminaire Tested: **DPT5-6FO36-85V60-F-XX-UDD\_5000K**

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: P888454  
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\_5000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

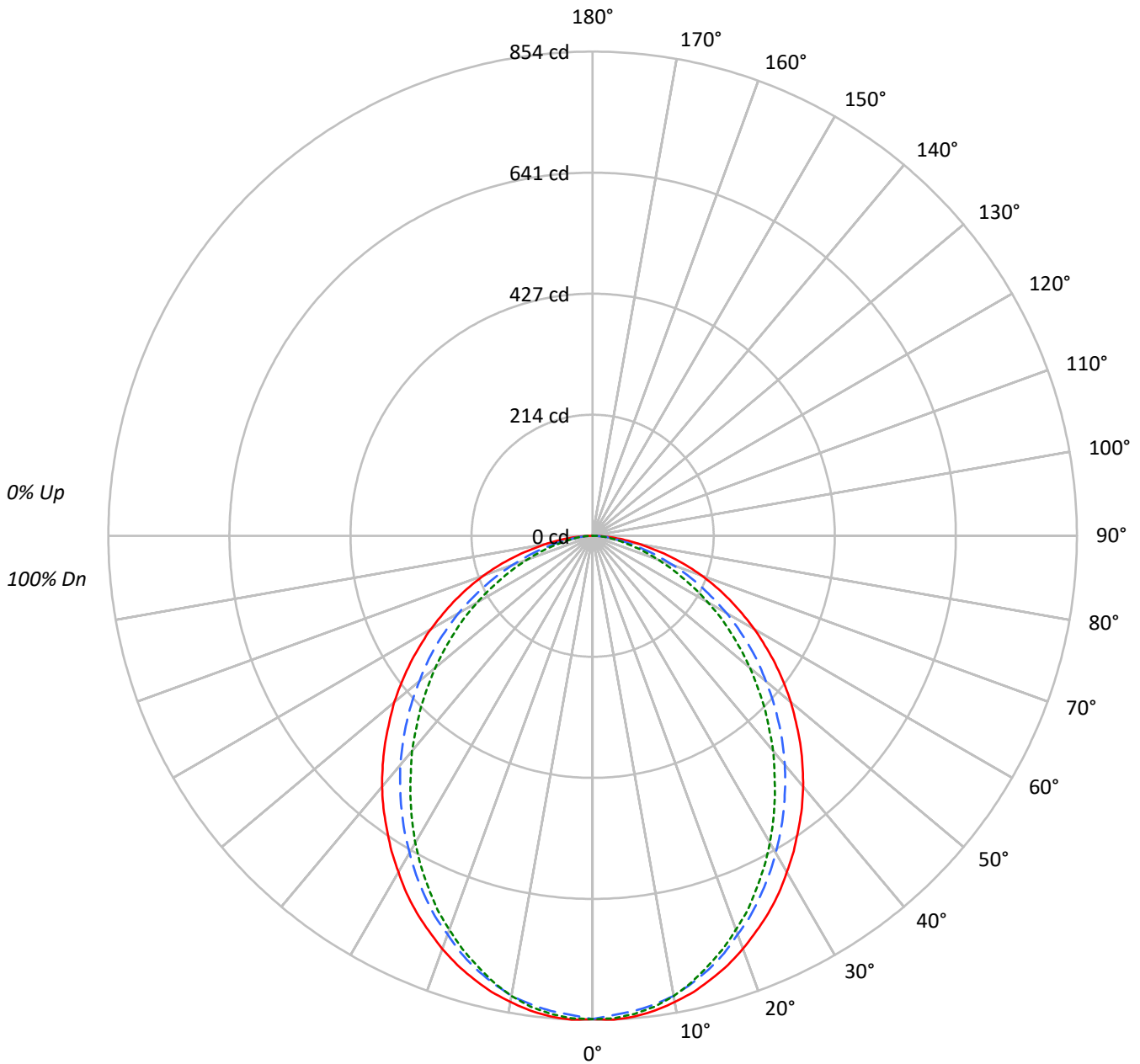
Lumens per Lamp: N/A  
Luminaire Lumens: 2014.0 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')  
CIE Type: Direct

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					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°	8108	8108	8108
5°	8126	8034	8081
10°	8064	7959	7959
15°	7969	7796	7734
20°	7845	7571	7480
25°	7701	7351	7188
30°	7523	7092	6866
35°	7341	6824	6503
40°	7171	6547	6148
45°	6962	6234	5759
50°	6754	5896	5355
55°	6513	5575	4923
60°	6269	5179	4457
65°	5986	4726	3925
70°	5659	4152	3384
75°	5203	3502	2818
80°	4584	2755	2366
85°	3863	2259	2106



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.2	4.0
10°-20°	224.2	11.1
20°-30°	325.1	16.1
30°-40°	370.4	18.4
40°-50°	361.0	17.9
50°-60°	303.8	15.1
60°-70°	212.9	10.6
70°-80°	109.2	5.4
80°-90°	27.2	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°	629.5	31.3
0°-40°	999.9	49.6
0°-60°	1664.7	82.7
0°-90°	2014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	851	849	842	848	846	81
15°	809	805	792	791	786	228
25°	734	724	700	692	685	338
35°	632	617	588	569	560	396
45°	518	499	464	438	428	399
55°	393	372	336	307	297	351
65°	266	244	210	184	174	263
75°	142	122	95	81	77	150
85°	35	24	21	20	19	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	852.5	852.5	852.5	852.5	852.5
2.5°	854.4	852.5	846.0	852.5	851.8
5°	851.2	848.7	841.5	847.8	846.5
7.5°	844.7	842.1	833.7	838.9	837.7
10°	835.0	833.1	824.1	826.1	824.1
12.5°	824.1	821.4	808.5	809.8	806.7
15°	809.4	805.4	791.8	791.2	785.5
17.5°	793.8	788.1	771.9	768.8	764.2
20°	775.1	768.8	748.1	744.9	739.1
22.5°	754.6	748.1	726.4	719.2	714.5
25°	733.9	724.2	700.5	692.1	685.0
27.5°	710.8	699.1	674.1	663.2	656.1
30°	685.0	672.9	645.8	631.1	625.2
32.5°	659.8	645.2	617.4	600.7	593.1
35°	632.3	616.9	587.8	569.2	560.1
37.5°	605.9	587.1	557.5	535.8	526.6
40°	577.6	558.2	527.3	502.8	495.2
42.5°	547.8	527.9	495.6	472.6	460.3
45°	517.6	499.1	463.5	437.8	428.2
47.5°	486.0	466.8	431.3	405.0	394.0
50°	456.5	435.2	398.5	371.5	361.9
52.5°	424.2	402.5	368.2	338.6	328.9
55°	392.8	372.1	336.2	307.2	296.9
57.5°	360.6	338.6	303.9	275.5	266.6
60°	329.6	307.2	272.3	244.0	234.3
62.5°	296.9	275.5	240.2	214.4	204.7
65°	266.0	244.0	210.0	184.0	174.4
67.5°	234.9	213.2	180.2	155.9	148.2
70°	203.5	181.5	149.3	129.3	121.7
72.5°	172.6	151.3	121.7	103.7	99.2
75°	141.6	122.3	95.3	81.2	76.7
77.5°	110.0	94.6	72.0	61.3	57.3
80°	83.7	68.3	50.3	44.4	43.2
82.5°	57.9	44.4	33.6	31.4	30.9
85°	35.4	23.8	20.7	19.9	19.3
87.5°	14.9	10.3	9.7	9.7	9.0
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)