

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: P888179

Luminaire Tested: **DPT5-6FO36-85V60-A-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: P888179  
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-A-XX-UDD\_5000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

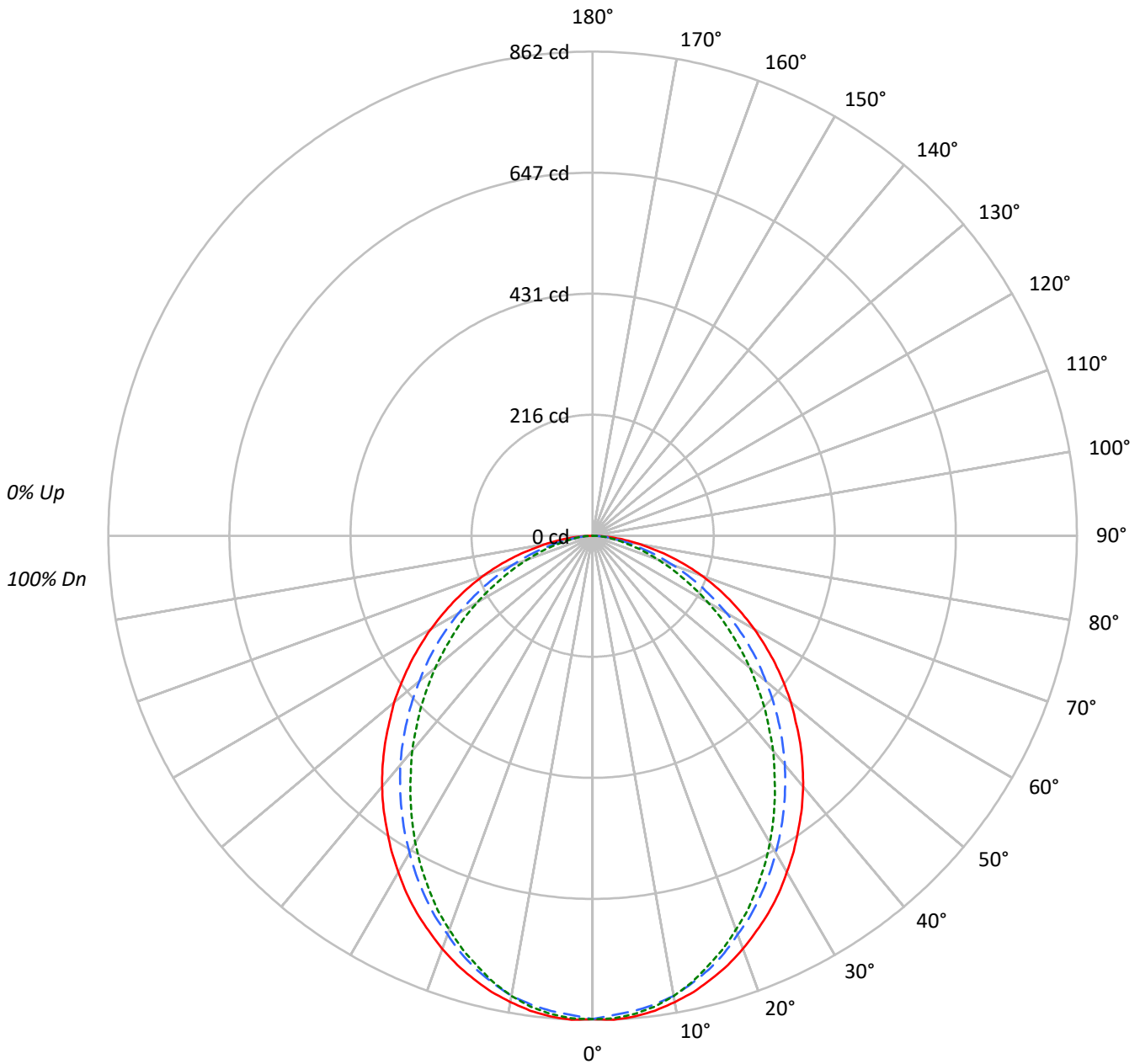
Lumens per Lamp: N/A  
Luminaire Lumens: 2033.0 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.9' x L: 0.39' x H: 0')  
CIE Type: Direct

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°	8184	8184	8184
5°	8203	8109	8158
10°	8140	8033	8033
15°	8044	7870	7807
20°	7919	7643	7551
25°	7774	7420	7256
30°	7594	7158	6931
35°	7410	6890	6564
40°	7238	6609	6205
45°	7028	6293	5813
50°	6818	5952	5405
55°	6574	5628	4969
60°	6328	5229	4498
65°	6042	4769	3961
70°	5712	4191	3415
75°	5255	3535	2844
80°	4628	2782	2388
85°	3896	2281	2128



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.0	4.0
10°-20°	226.3	11.1
20°-30°	328.2	16.1
30°-40°	373.9	18.4
40°-50°	364.4	17.9
50°-60°	306.7	15.1
60°-70°	214.9	10.6
70°-80°	110.2	5.4
80°-90°	27.5	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°	635.5	31.3
0°-40°	1009.3	49.6
0°-60°	1680.4	82.7
0°-90°	2033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	859	857	849	856	854	81
15°	817	813	799	799	793	230
25°	741	731	707	699	692	341
35°	638	623	593	575	565	400
45°	522	504	468	442	432	403
55°	396	376	339	310	300	355
65°	268	246	212	186	176	266
75°	143	123	96	82	77	151
85°	36	24	21	20	20	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	860.5	860.5	860.5	860.5	860.5
2.5°	862.5	860.5	854.0	860.5	859.8
5°	859.2	856.7	849.4	855.8	854.5
7.5°	852.7	850.0	841.6	846.8	845.6
10°	842.9	841.0	831.8	833.9	831.8
12.5°	831.8	829.2	816.2	817.5	814.4
15°	817.0	813.0	799.3	798.7	792.9
17.5°	801.3	795.5	779.2	776.0	771.4
20°	782.4	776.0	755.2	751.9	746.1
22.5°	761.7	755.2	733.2	726.0	721.3
25°	740.8	731.1	707.1	698.6	691.5
27.5°	717.5	705.7	680.4	669.4	662.3
30°	691.5	679.2	651.8	637.0	631.1
32.5°	666.1	651.2	623.3	606.4	598.7
35°	638.2	622.7	593.4	574.6	565.4
37.5°	611.6	592.7	562.8	540.8	531.5
40°	583.0	563.5	532.3	507.5	499.8
42.5°	553.0	532.9	500.3	477.0	464.6
45°	522.5	503.8	467.9	442.0	432.2
47.5°	490.5	471.3	435.3	408.8	397.7
50°	460.8	439.3	402.3	375.0	365.3
52.5°	428.2	406.3	371.7	341.8	332.0
55°	396.5	375.7	339.4	310.1	299.7
57.5°	364.0	341.8	306.8	278.1	269.1
60°	332.7	310.1	274.9	246.3	236.5
62.5°	299.7	278.1	242.4	216.4	206.6
65°	268.5	246.3	211.9	185.8	176.0
67.5°	237.1	215.2	181.9	157.3	149.6
70°	205.4	183.2	150.7	130.6	122.8
72.5°	174.2	152.7	122.8	104.6	100.2
75°	143.0	123.4	96.2	82.0	77.4
77.5°	111.0	95.5	72.7	61.8	57.9
80°	84.5	69.0	50.8	44.8	43.6
82.5°	58.5	44.8	33.9	31.7	31.2
85°	35.7	24.0	20.9	20.1	19.5
87.5°	15.1	10.4	9.8	9.8	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)