

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: P888540

Luminaire Tested: **DPT5-6FO55-37V60-F-XX-UDD\_4000K**

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: P888540  
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: DPT5-6FO55-37V60-F-XX-UDD\_4000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

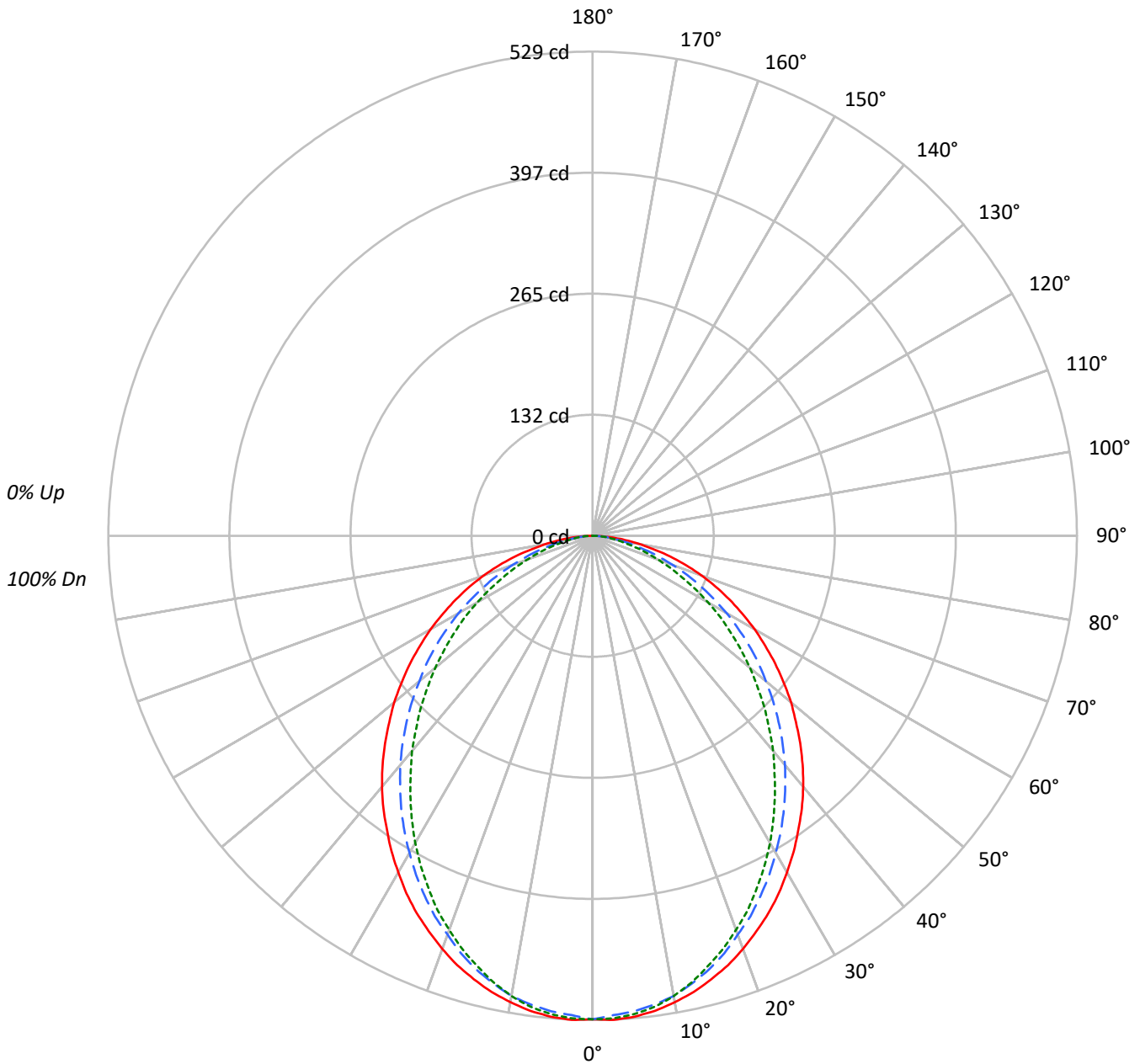
Lumens per Lamp: N/A  
Luminaire Lumens: 1248.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 4.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.1  
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°	3374	3374	3374
5°	3381	3343	3363
10°	3355	3311	3311
15°	3316	3244	3218
20°	3264	3151	3113
25°	3205	3058	2991
30°	3130	2950	2857
35°	3055	2840	2706
40°	2984	2724	2558
45°	2896	2594	2396
50°	2811	2454	2228
55°	2710	2319	2049
60°	2609	2155	1855
65°	2490	1966	1632
70°	2355	1727	1408
75°	2166	1458	1172
80°	1909	1147	986
85°	1605	938	879



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.7	4.0
10°-20°	138.9	11.1
20°-30°	201.5	16.1
30°-40°	229.5	18.4
40°-50°	223.7	17.9
50°-60°	188.3	15.1
60°-70°	131.9	10.6
70°-80°	67.6	5.4
80°-90°	16.9	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°	390.1	31.3
0°-40°	619.6	49.6
0°-60°	1031.6	82.7
0°-90°	1248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	527	526	521	525	525	50
15°	502	499	491	490	487	141
25°	455	449	434	429	424	209
35°	392	382	364	353	347	245
45°	321	309	287	271	265	247
55°	243	231	208	190	184	218
65°	165	151	130	114	108	163
75°	88	76	59	50	48	93
85°	22	15	13	12	12	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	528.3	528.3	528.3	528.3	528.3
2.5°	529.4	528.3	524.3	528.3	527.8
5°	527.4	525.9	521.4	525.4	524.6
7.5°	523.4	521.8	516.6	519.8	519.1
10°	517.4	516.3	510.6	511.9	510.6
12.5°	510.6	509.0	501.0	501.8	499.9
15°	501.5	499.1	490.7	490.3	486.7
17.5°	491.9	488.4	478.3	476.4	473.6
20°	480.3	476.4	463.6	461.6	458.0
22.5°	467.6	463.6	450.1	445.7	442.8
25°	454.8	448.8	434.0	428.9	424.5
27.5°	440.5	433.2	417.7	411.0	406.6
30°	424.5	416.9	400.1	391.0	387.4
32.5°	408.9	399.8	382.6	372.2	367.5
35°	391.8	382.2	364.3	352.7	347.1
37.5°	375.4	363.8	345.5	332.0	326.3
40°	357.9	345.9	326.7	311.6	306.8
42.5°	339.5	327.1	307.1	292.8	285.2
45°	320.7	309.3	287.2	271.3	265.3
47.5°	301.1	289.3	267.2	251.0	244.1
50°	282.9	269.7	247.0	230.2	224.2
52.5°	262.9	249.4	228.2	209.8	203.8
55°	243.4	230.6	208.3	190.3	184.0
57.5°	223.4	209.8	188.3	170.7	165.2
60°	204.3	190.3	168.7	151.2	145.2
62.5°	184.0	170.7	148.8	132.8	126.8
65°	164.8	151.2	130.1	114.0	108.0
67.5°	145.6	132.1	111.7	96.6	91.8
70°	126.1	112.5	92.5	80.1	75.4
72.5°	106.9	93.8	75.4	64.2	61.5
75°	87.8	75.8	59.1	50.3	47.5
77.5°	68.2	58.6	44.6	38.0	35.5
80°	51.9	42.3	31.2	27.5	26.8
82.5°	35.9	27.5	20.8	19.5	19.2
85°	21.9	14.7	12.8	12.4	12.0
87.5°	9.3	6.4	6.0	6.0	5.6
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)