

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: P892219

Luminaire Tested: **1030S**

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: P892219  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P264347)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/24/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: 1030S  
Description: Define Patient, Downlight with Spot 15deg

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

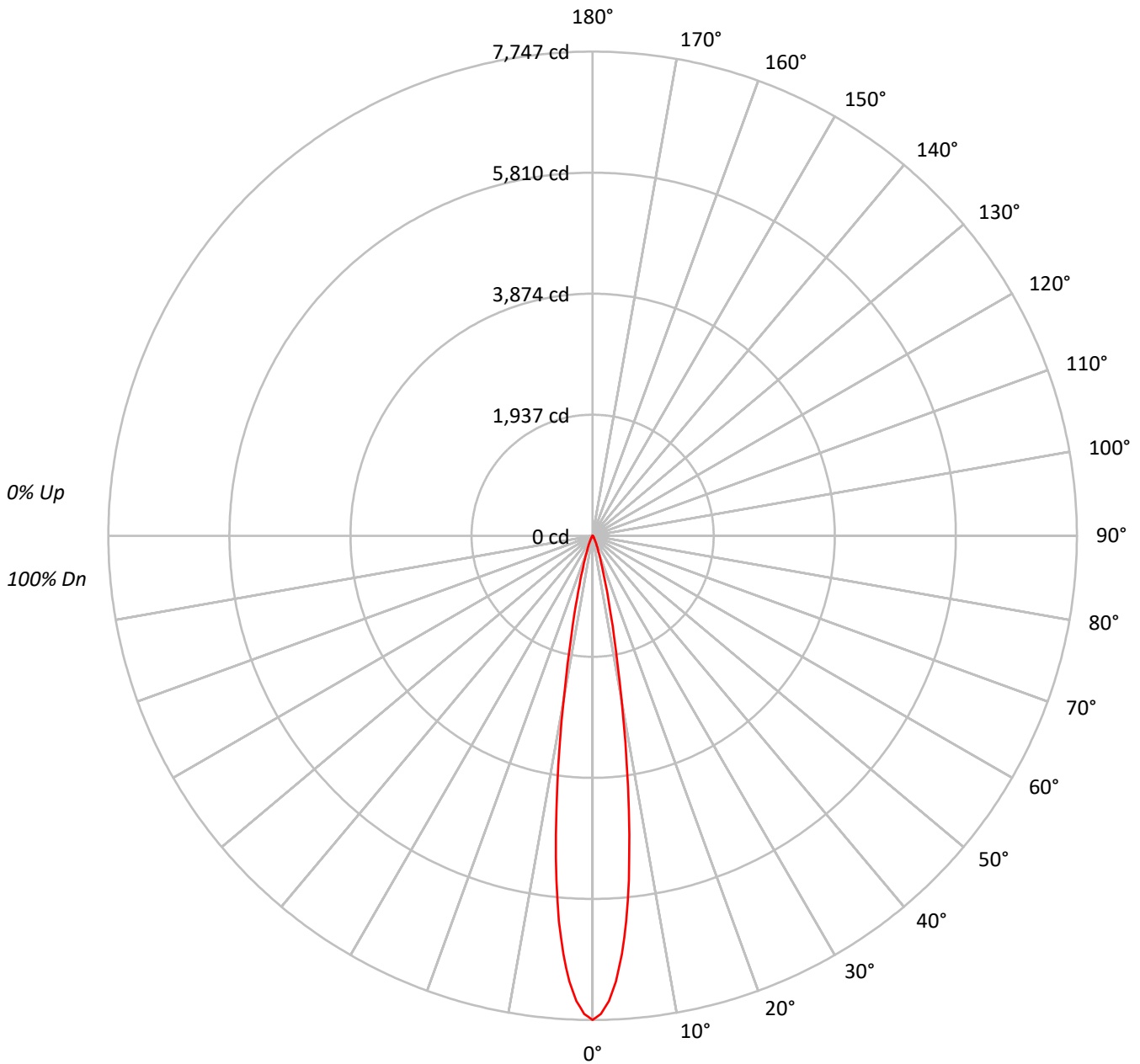
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 810.0 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.28  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): 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			100
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	100	98			98
2	113	109	107	105	111	108	106	104	105	103	101	102	101	99	99	98	97	96			96
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	96	95	94			94
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92			92
5	105	100	97	94	104	99	96	94	98	95	93	96	94	92	95	93	91	90			90
6	103	98	94	92	102	97	94	91	96	93	91	95	92	90	93	91	90	89			89
7	101	95	92	90	100	95	92	89	94	91	89	93	90	89	92	90	88	87			87
8	99	93	90	88	98	93	90	88	92	89	87	91	89	87	91	88	87	86			86
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	85			85
10	95	90	87	85	95	90	87	85	89	86	85	89	86	84	88	86	84	83			83

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	3822375
5°	3063865
10°	1337250
15°	414401
20°	144440
25°	63802
30°	28884
35°	14997
40°	8630
45°	4047
50°	2533
55°	1462
60°	789
65°	934
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.8	58.0
10°-20°	257.3	31.8
20°-30°	58.6	7.2
30°-40°	16.9	2.1
40°-50°	5.2	0.6
50°-60°	1.6	0.2
60°-70°	0.7	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	785.7	97.0
0°-40°	802.5	99.1
0°-60°	809.3	99.9
0°-90°	810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	810.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7747	
5°	6186	470
15°	811	257
25°	117	59
35°	25	17
45°	6	5
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7747.3
1°	7650.9
2°	7450.6
3°	7139.6
4°	6712.4
5°	6186.3
6°	5541.2
7°	4820.5
8°	4068.1
9°	3340.0
10°	2669.2
11°	2101.4
12°	1654.2
13°	1301.8
14°	1028.3
15°	811.3
16°	640.1
17°	509.6
18°	409.8
19°	333.3
20°	275.1
22.5°	177.9
25°	117.2
26°	98.9
27°	83.9
28°	70.7
29°	59.0
30°	50.7
32.5°	34.9
35°	24.9
37.5°	18.3
40°	13.4
42.5°	9.1
45°	5.8
47.5°	4.1
50°	3.3
52.5°	2.5
55°	1.7
57.5°	0.8
60°	0.8
62.5°	0.8
65°	0.8
67.5°	0.8



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**CANDELA DISTRIBUTION (continued):**

	0°
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







70°		0.0
72.5°		0.0



(END OF REPORT)