

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: P892202

Luminaire Tested: **0530N**

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: P892202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P222643)
Test Lab: INNOVATION CENTER-P2
Issue Date: 10/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 0530N
Description: Define Patient, Downlight with Narrow 25deg

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

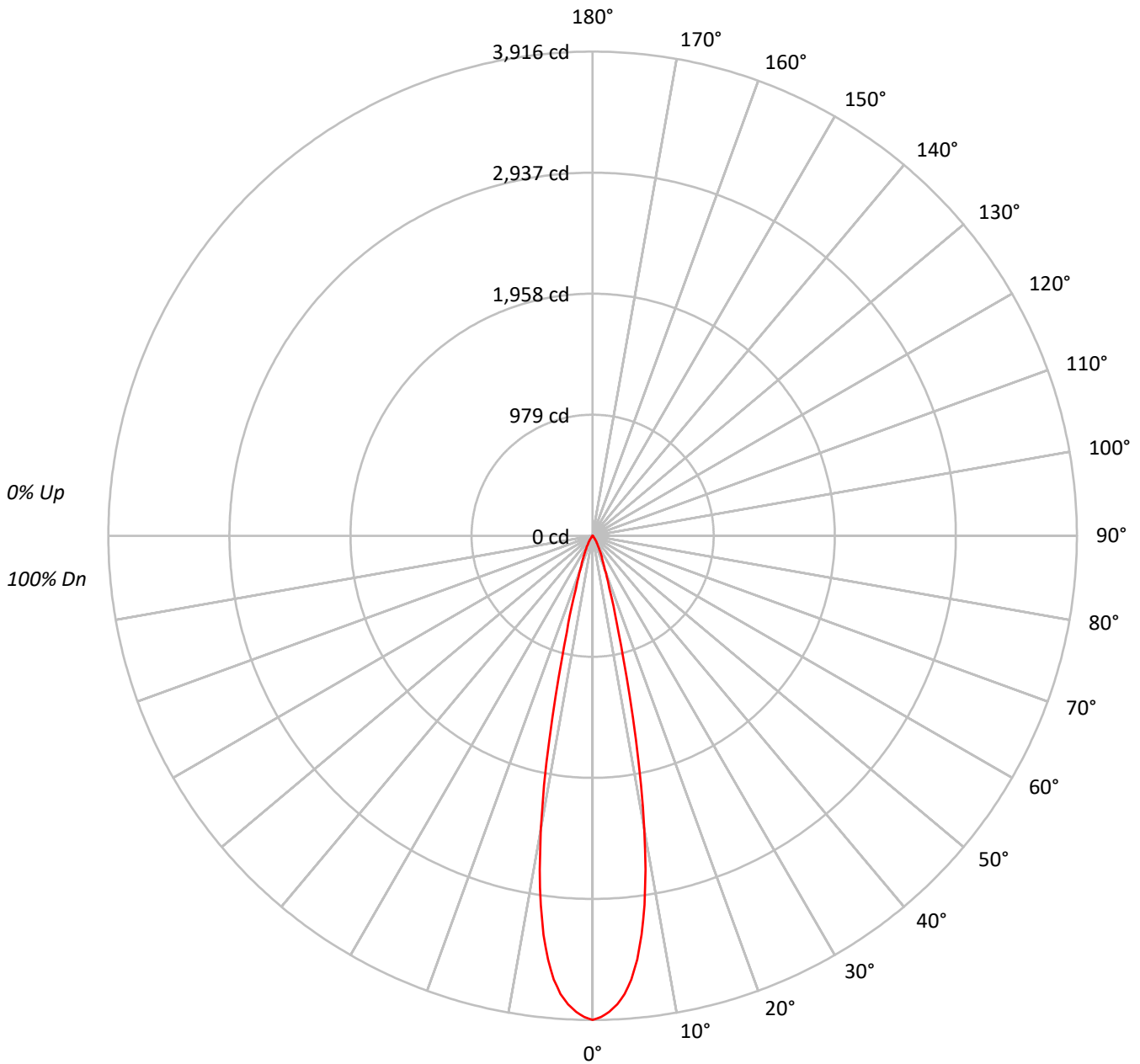
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 660.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.3
Input Voltage (V): NR
Input Current (A_{in}): 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	99	97
1	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97	97	96	95
2	112	109	106	104	110	107	104	102	104	102	100	101	99	98	98	97	96	95	95	93	92
3	109	105	101	99	107	103	100	98	101	98	96	99	97	95	96	95	93	92	92	91	90
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	95	93	91	90	89	88	88
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88	87	86	86
6	101	95	91	89	99	94	91	88	93	90	88	92	89	87	91	88	87	86	85	84	84
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	87	85	84	83	82	82
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82	81	80	80
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	85	83	81	80	79	79	79
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79	79	79	79

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1931934
5°	1783800
10°	1207392
15°	410774
20°	150846
25°	79970
30°	41076
35°	19153
40°	6312
45°	3210
50°	1458
55°	516
60°	592
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.4	46.4
10°-20°	257.6	39.0
20°-30°	70.7	10.7
30°-40°	20.6	3.1
40°-50°	3.8	0.6
50°-60°	0.8	0.1
60°-70°	0.1	0.0
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°	634.6	96.2
0°-40°	655.3	99.3
0°-60°	659.9	100.0
0°-90°	660.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	660.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3916	
5°	3602	306
15°	804	258
25°	147	71
35°	32	21
45°	5	4
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3915.7
1°	3892.9
2°	3852.6
3°	3794.8
4°	3715.5
5°	3601.7
6°	3446.3
7°	3251.9
8°	3014.7
9°	2734.4
10°	2410.0
11°	2054.4
12°	1684.4
13°	1331.5
14°	1030.5
15°	804.2
17.5°	453.8
20°	287.3
22.5°	204.8
25°	146.9
27.5°	104.0
30°	72.1
32.5°	50.7
35°	31.8
37.5°	13.0
40°	9.8
42.5°	7.1
45°	4.6
47.5°	2.6
50°	1.9
52.5°	1.3
55°	0.6
57.5°	0.6
60°	0.6
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0



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CANDELA DISTRIBUTION (continued):

0°
90° | 0.0



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— 0°-180°







85°		0.0
87.5°		0.0



(END OF REPORT)