

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: P892215

Luminaire Tested: **1027S**

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: P892215
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: 1027S
Description: Define Patient, Downlight with Spot 15deg

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

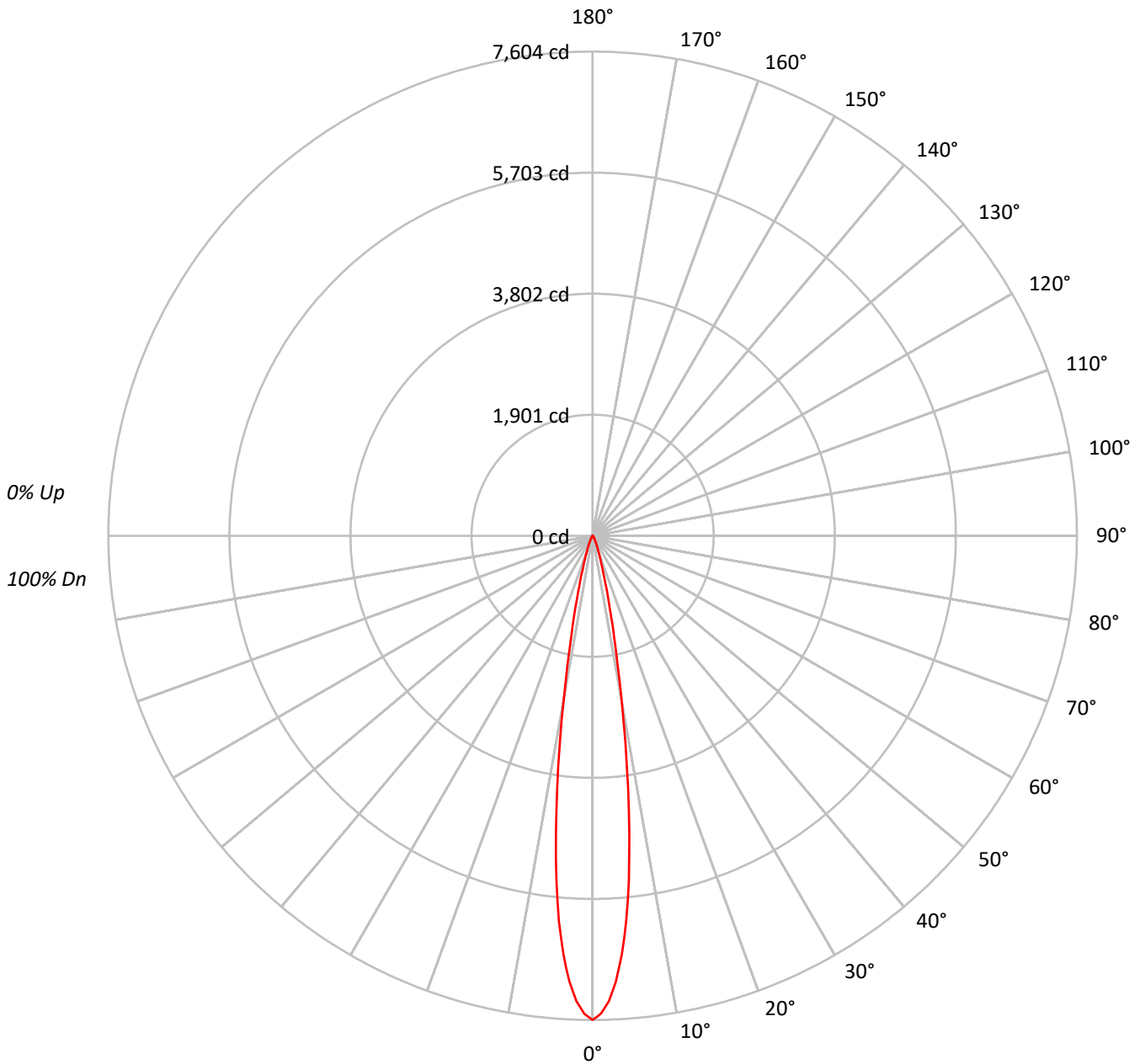
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 795.0 lumens
Efficiency: N/A
Efficacy: 77.2 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 (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

TEST NUMBER: P892215
CATALOG NUMBER: 1027S

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	100	98		
2	113	109	107	105	111	108	106	104	105	103	101	102	101	99	99	98	97	96		
3	110	106	103	100	108	105	102	100	102	100	98	100	98	97	98	96	95	94		
4	107	103	99	97	106	102	99	96	100	97	95	98	96	94	96	95	93	92		
5	105	100	97	94	104	99	96	94	98	95	93	96	94	92	95	93	91	90		
6	103	98	94	92	102	97	94	91	96	93	91	95	92	90	93	91	90	89		
7	101	95	92	90	100	95	92	89	94	91	89	93	90	89	92	90	88	87		
8	99	93	90	88	98	93	90	88	92	89	87	91	89	87	91	88	87	86		
9	97	92	88	86	96	91	88	86	91	88	86	90	87	86	89	87	85	85		
10	95	90	87	85	95	90	87	85	89	86	85	89	86	84	88	86	84	83		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3751624
5°	3007108
10°	1312501
15°	406739
20°	141762
25°	62659
30°	28371
35°	14696
40°	8437
45°	3977
50°	2533
55°	1462
60°	789
65°	934
70°	0
75°	0
80°	0
85°	0



TEST NUMBER: P892215
 CATALOG NUMBER: 1027S

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.1	58.0
10°-20°	252.5	31.8
20°-30°	57.6	7.2
30°-40°	16.5	2.1
40°-50°	5.1	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°	771.1	97.0
0°-40°	787.7	99.1
0°-60°	794.3	99.9
0°-90°	795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	795.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7604	
5°	6072	461
15°	796	253
25°	115	58
35°	24	17
45°	6	5
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CATALOG NUMBER: 1027S

CANDELA DISTRIBUTION (FULL):

	0°
0°	7603.9
1°	7509.2
2°	7312.6
3°	7007.4
4°	6588.1
5°	6071.7
6°	5438.5
7°	4731.2
8°	3992.8
9°	3278.2
10°	2619.8
11°	2062.5
12°	1623.6
13°	1277.7
14°	1009.2
15°	796.3
16°	628.2
17°	500.2
18°	402.2
19°	327.2
20°	270.0
22.5°	174.6
25°	115.1
26°	97.0
27°	82.4
28°	69.4
29°	57.9
30°	49.8
32.5°	34.3
35°	24.4
37.5°	17.9
40°	13.1
42.5°	9.0
45°	5.7
47.5°	4.0
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



TEST NUMBER: P892215
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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



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— 0°-180°







70°		0.0
72.5°		0.0



(END OF REPORT)