

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: P892213

Luminaire Tested: **1027F**

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: P892213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P224867)
Test Lab: INNOVATION CENTER (G1)
Issue Date: 10/24/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: 1027F
Description: Define Patient, Downlight with Medium 40deg

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

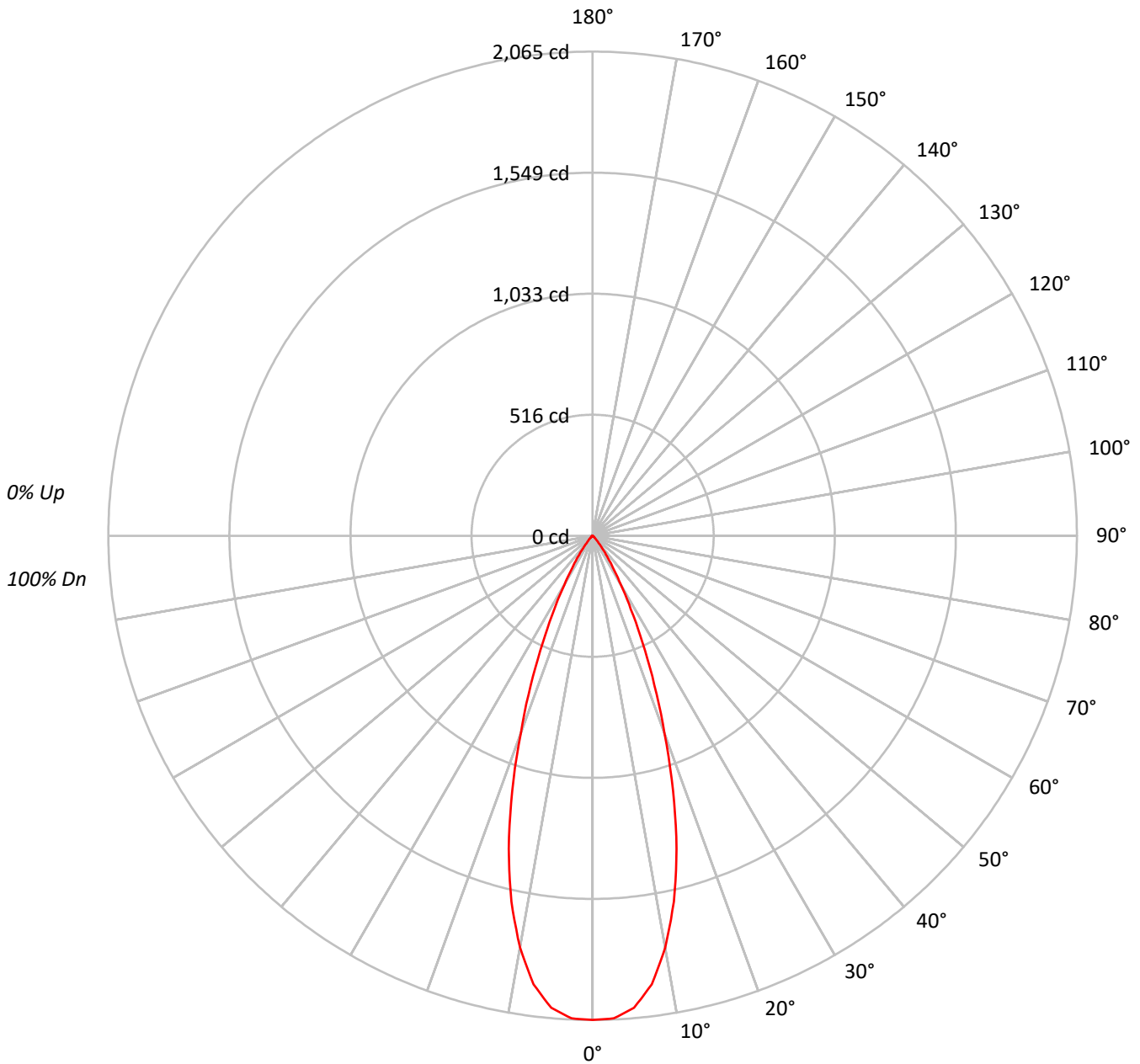
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 884.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.6
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

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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	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	106	103	100	108	104	101	99	101	99	96	98	96	94	95	94	92	91	91	91	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87	87	87	87
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83	83	83	83
5	98	91	86	83	96	90	86	82	88	85	82	87	84	81	85	83	80	79	79	79	79
6	94	87	82	79	93	86	82	78	85	81	78	84	80	77	82	79	77	76	76	76	76
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72	72	72	72
8	87	80	75	72	86	79	75	71	78	74	71	77	74	71	76	73	71	69	69	69	69
9	84	77	72	69	83	76	72	68	75	71	68	74	71	68	74	70	68	67	67	67	67
10	82	74	69	66	81	73	69	66	73	68	65	72	68	65	71	68	65	64	64	64	64

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1018784
5°	1001081
10°	893020
15°	705906
20°	470703
25°	273010
30°	136673
35°	64266
40°	25118
45°	11164
50°	5296
55°	3011
60°	1184
65°	0
70°	0
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	21.0
10°-20°	374.1	42.3
20°-30°	235.3	26.6
30°-40°	71.9	8.1
40°-50°	14.1	1.6
50°-60°	3.2	0.4
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°	794.6	89.9
0°-40°	866.6	98.0
0°-60°	883.9	100.0
0°-90°	884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	884.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2065	
5°	2021	185
15°	1382	374
25°	502	235
35°	107	72
45°	16	14
55°	4	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2064.9
2.5°	2060.3
5°	2021.3
7.5°	1929.4
10°	1782.5
12.5°	1598.9
15°	1382.0
17.5°	1140.9
20°	896.5
22.5°	687.5
25°	501.5
27.5°	353.5
30°	239.9
32.5°	161.9
35°	106.7
37.5°	65.4
40°	39.0
42.5°	25.3
45°	16.0
47.5°	10.4
50°	6.9
52.5°	4.6
55°	3.5
57.5°	2.3
60°	1.2
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
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)