

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: P892225

Luminaire Tested: **1040F**

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: P892225
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: 1040F
Description: Define Patient, Downlight with Medium 40deg

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

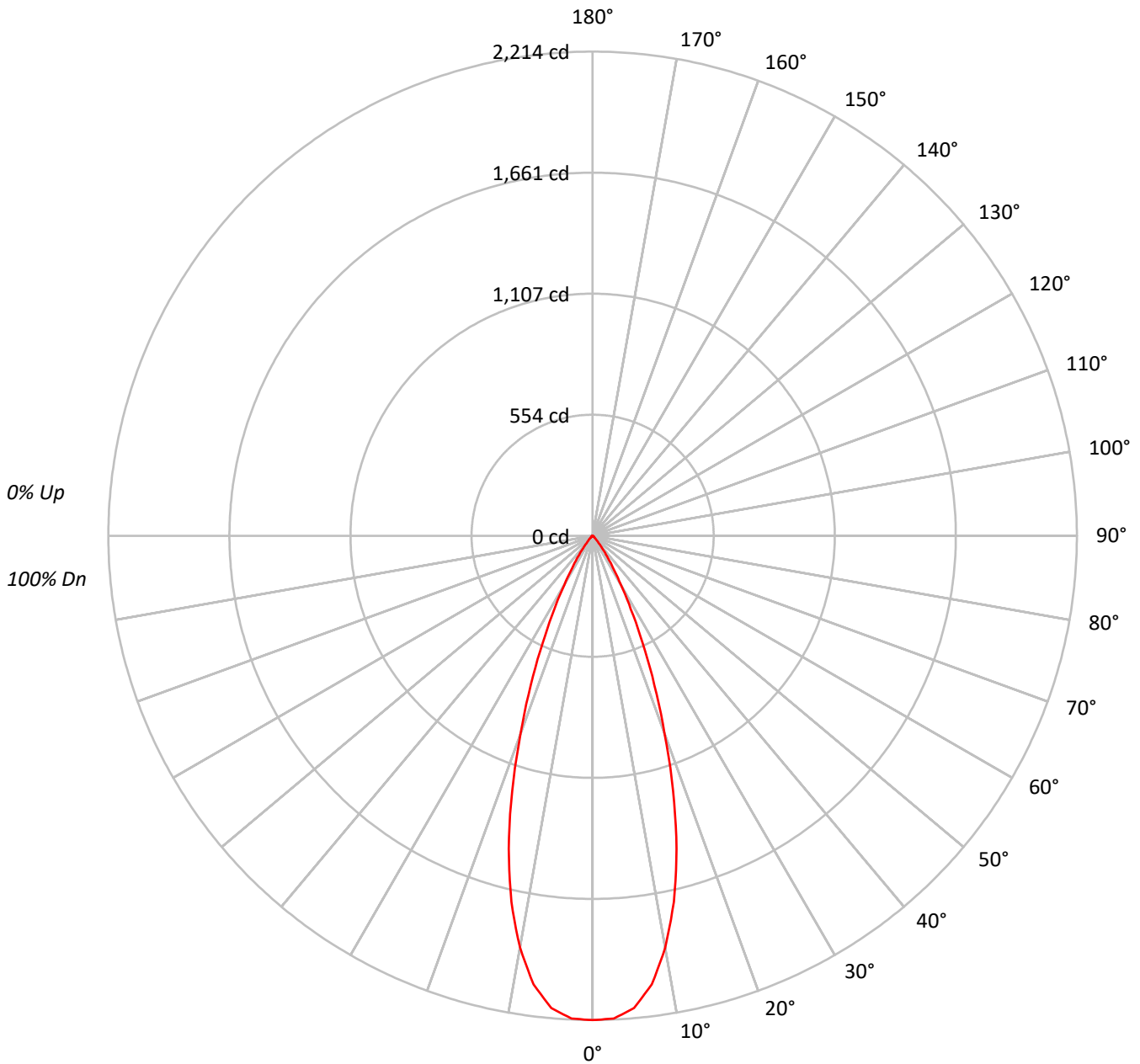
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 948.0 lumens
Efficiency: N/A
Efficacy: 92.0 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

TEST NUMBER: P892225
CATALOG NUMBER: 1040F

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1092544
5°	1073539
10°	957698
15°	756985
20°	504779
25°	292771
30°	146529
35°	68964
40°	26922
45°	12001
50°	5680
55°	3183
60°	1184
65°	0
70°	0
75°	0
80°	0
85°	0



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 CATALOG NUMBER: 1040F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.7	21.0
10°-20°	401.1	42.3
20°-30°	252.3	26.6
30°-40°	77.2	8.1
40°-50°	15.1	1.6
50°-60°	3.4	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°	852.1	89.9
0°-40°	929.3	98.0
0°-60°	947.8	100.0
0°-90°	948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	948.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2214	
5°	2168	199
15°	1482	401
25°	538	252
35°	114	77
45°	17	15
55°	4	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2214.4
2.5°	2209.4
5°	2167.6
7.5°	2069.1
10°	1911.6
12.5°	1714.6
15°	1482.0
17.5°	1223.5
20°	961.4
22.5°	737.3
25°	537.8
27.5°	379.1
30°	257.2
32.5°	173.6
35°	114.5
37.5°	70.2
40°	41.8
42.5°	27.1
45°	17.2
47.5°	11.1
50°	7.4
52.5°	4.9
55°	3.7
57.5°	2.5
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)