

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: P892197

Luminaire Tested: **0527F**

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: P892197  
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: 0527F  
Description: Define Patient, Downlight with Medium 40deg

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

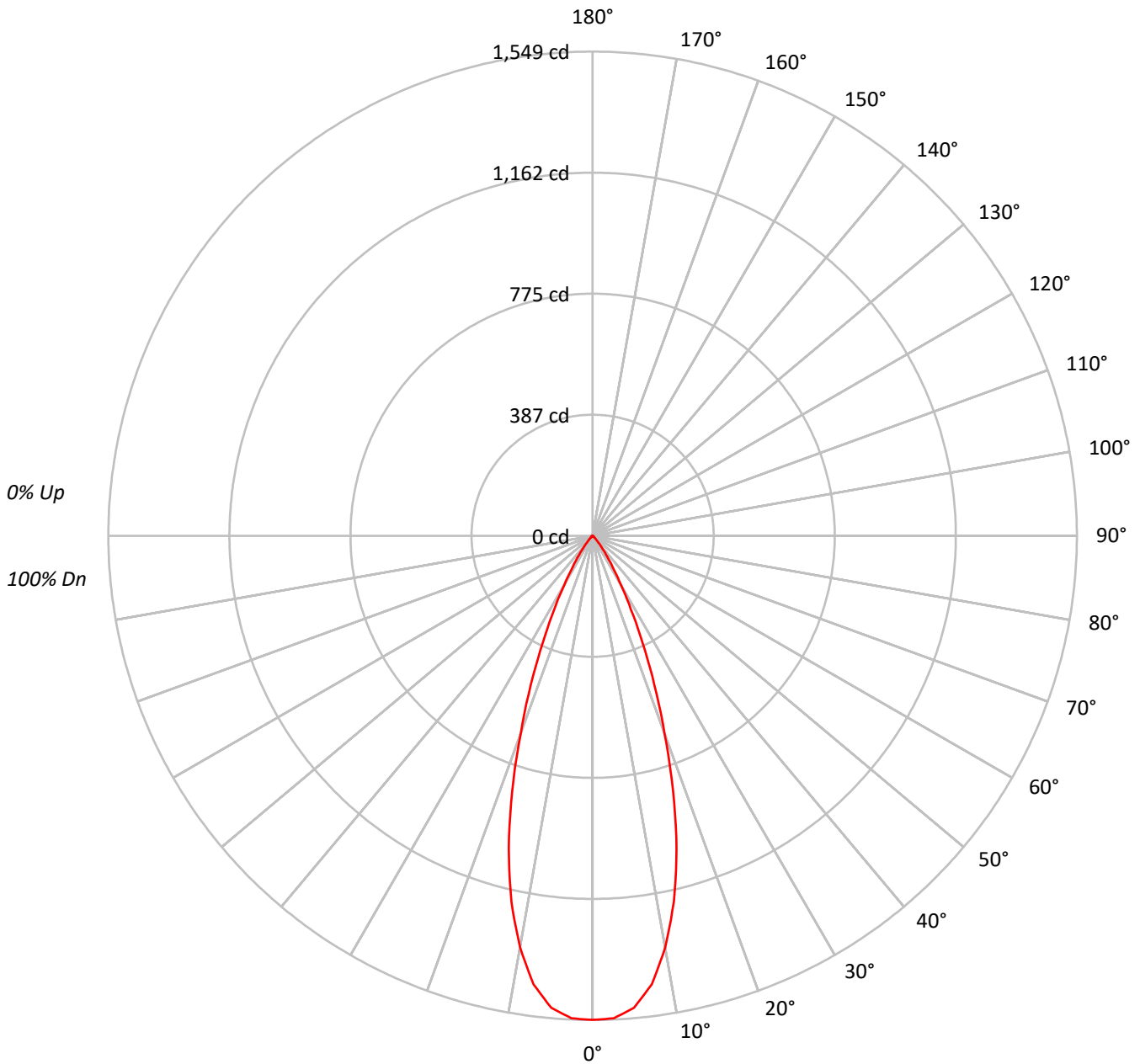
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 663.0 lumens  
Efficiency: N/A  
Efficacy: 90.8 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): 7.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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	95	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°	764051
5°	750774
10°	669777
15°	529430
20°	352988
25°	204798
30°	102490
35°	48185
40°	18807
45°	8373
50°	3991
55°	2236
60°	888
65°	0
70°	0
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.0	21.0
10°-20°	280.5	42.3
20°-30°	176.5	26.6
30°-40°	53.9	8.1
40°-50°	10.6	1.6
50°-60°	2.4	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°	596.0	89.9
0°-40°	649.9	98.0
0°-60°	662.9	100.0
0°-90°	663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	663.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1549	
5°	1516	139
15°	1036	281
25°	376	176
35°	80	54
45°	12	11
55°	3	2
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1548.6
2.5°	1545.2
5°	1515.9
7.5°	1447.1
10°	1336.9
12.5°	1199.1
15°	1036.5
17.5°	855.7
20°	672.3
22.5°	515.6
25°	376.2
27.5°	265.1
30°	179.9
32.5°	121.4
35°	80.0
37.5°	49.1
40°	29.2
42.5°	18.9
45°	12.0
47.5°	7.8
50°	5.2
52.5°	3.5
55°	2.6
57.5°	1.7
60°	0.9
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



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°







(END OF REPORT)