

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: P888346

Luminaire Tested: **DPT5-4F029-109S27-F-XX-UDD**

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: P888346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (DEFINE LENGTH SCALING TOOL)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 10/24/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: DPT5-4F029-109S27-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

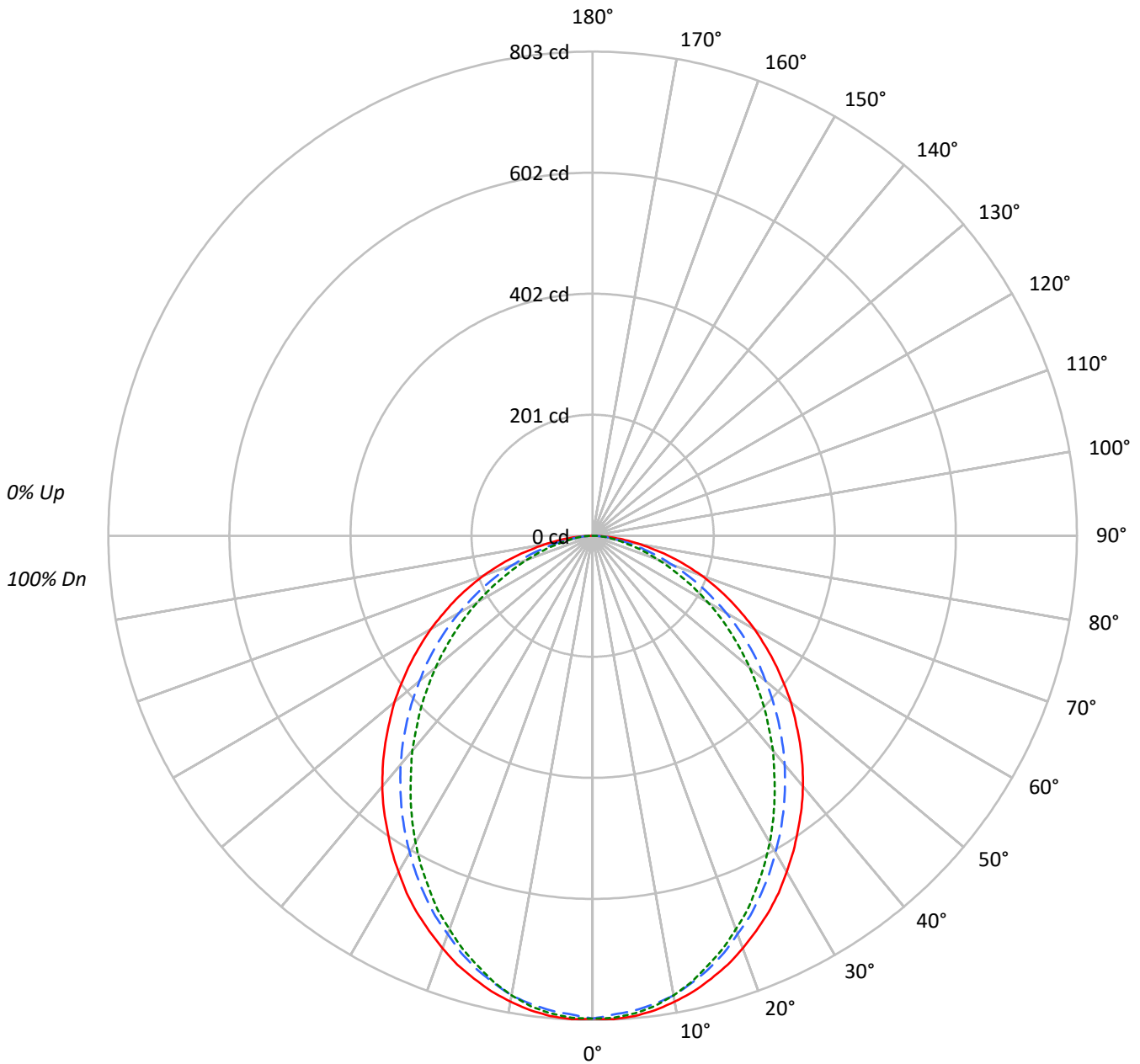
Lumens per Lamp: N/A  
Luminaire Lumens: 1892.0 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.6  
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									
RC	80									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																			
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85																			
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	72																			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61																			
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53																			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46																			
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41																			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36																			
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33																			
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	29																			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9537	9537	9537
5°	9559	9451	9507
10°	9487	9361	9361
15°	9374	9172	9098
20°	9228	8907	8801
25°	9059	8647	8456
30°	8849	8342	8077
35°	8636	8028	7650
40°	8436	7700	7232
45°	8191	7333	6774
50°	7945	6937	6298
55°	7662	6557	5791
60°	7377	6093	5243
65°	7042	5557	4616
70°	6658	4882	3980
75°	6125	4118	3313
80°	5391	3237	2785
85°	4537	2651	2487



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.4	4.0
10°-20°	210.6	11.1
20°-30°	305.4	16.1
30°-40°	347.9	18.4
40°-50°	339.1	17.9
50°-60°	285.4	15.1
60°-70°	200.0	10.6
70°-80°	102.5	5.4
80°-90°	25.6	1.4
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°	591.4	31.3
0°-40°	939.3	49.6
0°-60°	1563.9	82.7
0°-90°	1892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	801	801	801	801	801	
5°	800	797	790	796	795	76
15°	760	757	744	743	738	214
25°	689	680	658	650	644	317
35°	594	580	552	535	526	372
45°	486	469	435	411	402	375
55°	369	350	316	289	279	330
65°	250	229	197	173	164	247
75°	133	115	90	76	72	141
85°	33	22	19	19	18	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	800.8	800.8	800.8	800.8	800.8
2.5°	802.6	800.8	794.8	800.8	800.2
5°	799.6	797.3	790.5	796.5	795.2
7.5°	793.6	791.1	783.2	788.1	786.9
10°	784.5	782.7	774.1	776.1	774.1
12.5°	774.1	771.7	759.6	760.8	757.9
15°	760.3	756.6	743.9	743.3	737.9
17.5°	745.8	740.4	725.1	722.2	717.9
20°	728.1	722.2	702.8	699.8	694.4
22.5°	708.8	702.8	682.4	675.6	671.3
25°	689.4	680.3	658.0	650.2	643.5
27.5°	667.8	656.8	633.2	623.0	616.4
30°	643.5	632.1	606.6	592.8	587.3
32.5°	619.9	606.1	580.0	564.3	557.2
35°	594.0	579.5	552.2	534.7	526.2
37.5°	569.2	551.5	523.7	503.3	494.7
40°	542.6	524.4	495.3	472.3	465.2
42.5°	514.6	495.9	465.6	444.0	432.4
45°	486.3	468.9	435.4	411.3	402.2
47.5°	456.5	438.6	405.1	380.5	370.1
50°	428.8	408.8	374.4	349.0	339.9
52.5°	398.5	378.1	345.9	318.1	309.0
55°	369.0	349.6	315.8	288.6	278.9
57.5°	338.7	318.1	285.5	258.8	250.4
60°	309.7	288.6	255.8	229.2	220.1
62.5°	278.9	258.8	225.6	201.4	192.3
65°	249.9	229.2	197.2	172.9	163.8
67.5°	220.7	200.3	169.3	146.4	139.2
70°	191.2	170.5	140.2	121.5	114.3
72.5°	162.1	142.2	114.3	97.4	93.2
75°	133.1	114.9	89.5	76.3	72.0
77.5°	103.3	88.9	67.7	57.6	53.9
80°	78.6	64.2	47.2	41.7	40.6
82.5°	54.4	41.7	31.5	29.5	29.1
85°	33.2	22.3	19.4	18.7	18.2
87.5°	14.0	9.6	9.1	9.1	8.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)