

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: P888368

Luminaire Tested: **DPT5-4F029-37S27-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: P888368  
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: DPT5-4F029-37S27-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

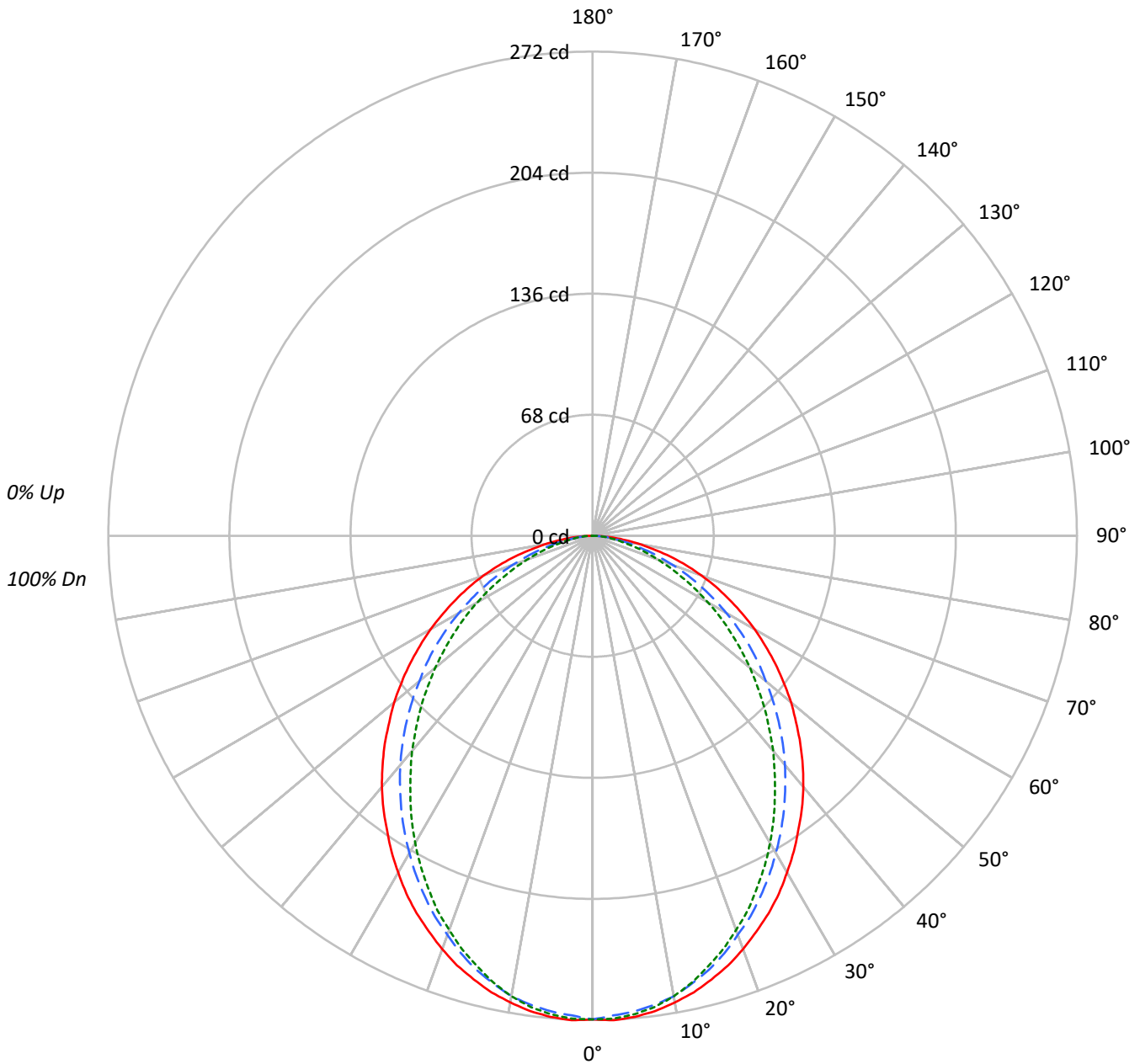
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 642.0 lumens  
Efficiency: N/A  
Efficacy: 91.7 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): 7  
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°	3236	3236	3236
5°	3243	3206	3225
10°	3219	3177	3177
15°	3181	3112	3087
20°	3132	3023	2986
25°	3074	2934	2870
30°	3003	2830	2741
35°	2930	2725	2595
40°	2862	2613	2453
45°	2779	2489	2299
50°	2696	2353	2138
55°	2600	2226	1964
60°	2503	2068	1779
65°	2390	1885	1567
70°	2260	1657	1351
75°	2080	1399	1123
80°	1831	1097	946
85°	1544	902	847



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.6	4.0
10°-20°	71.5	11.1
20°-30°	103.6	16.1
30°-40°	118.1	18.4
40°-50°	115.1	17.9
50°-60°	96.8	15.1
60°-70°	67.9	10.6
70°-80°	34.8	5.4
80°-90°	8.7	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°	200.7	31.3
0°-40°	318.7	49.6
0°-60°	530.7	82.7
0°-90°	642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	642.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	272	272	272	272	272	
5°	271	270	268	270	270	26
15°	258	257	252	252	250	73
25°	234	231	223	221	218	108
35°	202	197	187	181	178	126
45°	165	159	148	140	136	127
55°	125	119	107	98	95	112
65°	85	78	67	59	56	84
75°	45	39	30	26	24	48
85°	11	8	7	6	6	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	271.7	271.7	271.7	271.7	271.7
2.5°	272.4	271.7	269.7	271.7	271.5
5°	271.3	270.5	268.2	270.3	269.8
7.5°	269.3	268.4	265.8	267.4	267.0
10°	266.2	265.6	262.7	263.3	262.7
12.5°	262.7	261.8	257.7	258.2	257.2
15°	258.0	256.7	252.4	252.2	250.4
17.5°	253.1	251.2	246.0	245.1	243.6
20°	247.1	245.1	238.5	237.4	235.6
22.5°	240.5	238.5	231.5	229.3	227.8
25°	233.9	230.9	223.3	220.6	218.4
27.5°	226.6	222.9	214.9	211.4	209.2
30°	218.4	214.5	205.8	201.2	199.3
32.5°	210.3	205.7	196.8	191.5	189.1
35°	201.5	196.6	187.4	181.4	178.5
37.5°	193.1	187.2	177.7	170.8	167.9
40°	184.1	177.9	168.1	160.3	157.8
42.5°	174.6	168.3	158.0	150.6	146.7
45°	165.0	159.1	147.8	139.6	136.5
47.5°	154.9	148.8	137.5	129.1	125.6
50°	145.5	138.7	127.0	118.4	115.4
52.5°	135.2	128.3	117.4	107.9	104.8
55°	125.2	118.6	107.2	97.9	94.6
57.5°	114.9	107.9	96.9	87.8	85.0
60°	105.1	97.9	86.8	77.8	74.7
62.5°	94.6	87.8	76.6	68.3	65.3
65°	84.8	77.8	66.9	58.7	55.6
67.5°	74.9	68.0	57.4	49.7	47.2
70°	64.9	57.9	47.6	41.2	38.8
72.5°	55.0	48.2	38.8	33.0	31.6
75°	45.2	39.0	30.4	25.9	24.4
77.5°	35.1	30.2	23.0	19.5	18.3
80°	26.7	21.8	16.0	14.2	13.8
82.5°	18.5	14.2	10.7	10.0	9.9
85°	11.3	7.6	6.6	6.4	6.2
87.5°	4.8	3.3	3.1	3.1	2.9
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)