

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: P888370

Luminaire Tested: **DPT5-4F029-37S35-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: P888370  
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: DPT5-4F029-37S35-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

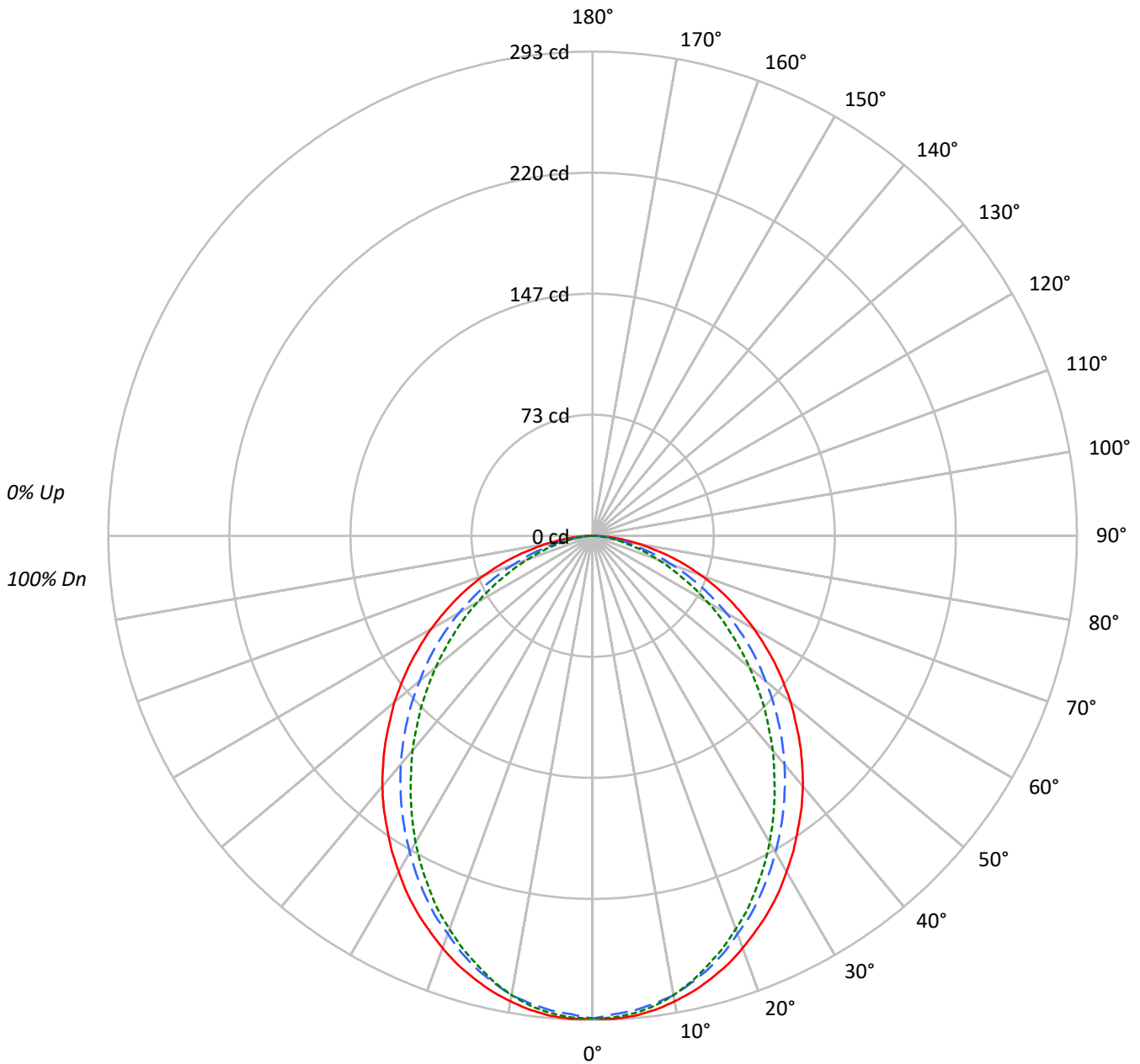
Lumens per Lamp: N/A  
Luminaire Lumens: 690.0 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

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	30																			
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°	3479	3479	3479
5°	3486	3447	3467
10°	3460	3414	3414
15°	3419	3345	3318
20°	3365	3248	3209
25°	3304	3154	3084
30°	3228	3042	2946
35°	3149	2928	2790
40°	3077	2808	2637
45°	2986	2675	2471
50°	2898	2529	2297
55°	2795	2392	2112
60°	2689	2222	1913
65°	2567	2026	1682
70°	2427	1779	1452
75°	2232	1505	1210
80°	1968	1180	1015
85°	1653	970	902



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.5	4.0
10°-20°	76.8	11.1
20°-30°	111.4	16.1
30°-40°	126.9	18.4
40°-50°	123.7	17.9
50°-60°	104.1	15.1
60°-70°	72.9	10.6
70°-80°	37.4	5.4
80°-90°	9.3	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°	215.7	31.3
0°-40°	342.6	49.6
0°-60°	570.3	82.7
0°-90°	690.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	690.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	292	292	292	292	292	
5°	292	291	288	290	290	28
15°	277	276	271	271	269	78
25°	251	248	240	237	235	116
35°	217	211	201	195	192	136
45°	177	171	159	150	147	137
55°	135	128	115	105	102	120
65°	91	84	72	63	60	90
75°	48	42	33	28	26	51
85°	12	8	7	7	7	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	292.1	292.1	292.1	292.1	292.1
2.5°	292.7	292.1	289.9	292.1	291.8
5°	291.6	290.8	288.3	290.5	290.0
7.5°	289.4	288.5	285.6	287.4	287.0
10°	286.1	285.4	282.3	283.0	282.3
12.5°	282.3	281.4	277.0	277.5	276.4
15°	277.3	275.9	271.3	271.1	269.1
17.5°	272.0	270.0	264.4	263.4	261.8
20°	265.5	263.4	256.3	255.2	253.2
22.5°	258.5	256.3	248.9	246.4	244.8
25°	251.4	248.1	240.0	237.1	234.7
27.5°	243.5	239.5	230.9	227.2	224.8
30°	234.7	230.5	221.2	216.2	214.2
32.5°	226.1	221.0	211.5	205.8	203.2
35°	216.6	211.3	201.4	195.0	191.9
37.5°	207.6	201.1	191.0	183.6	180.4
40°	197.9	191.2	180.6	172.3	169.6
42.5°	187.7	180.9	169.8	161.9	157.7
45°	177.3	171.0	158.8	150.0	146.7
47.5°	166.5	159.9	147.8	138.7	135.0
50°	156.4	149.1	136.5	127.3	124.0
52.5°	145.3	137.9	126.1	116.0	112.7
55°	134.6	127.5	115.2	105.2	101.7
57.5°	123.5	116.0	104.1	94.4	91.3
60°	112.9	105.2	93.3	83.6	80.3
62.5°	101.7	94.4	82.3	73.4	70.1
65°	91.1	83.6	71.9	63.1	59.7
67.5°	80.5	73.0	61.7	53.4	50.8
70°	69.7	62.2	51.1	44.3	41.7
72.5°	59.1	51.8	41.7	35.5	34.0
75°	48.5	41.9	32.7	27.8	26.3
77.5°	37.7	32.4	24.7	21.0	19.6
80°	28.7	23.4	17.2	15.2	14.8
82.5°	19.8	15.2	11.5	10.8	10.6
85°	12.1	8.1	7.1	6.8	6.6
87.5°	5.1	3.5	3.3	3.3	3.1
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)