

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: P888076

Luminaire Tested: **DPT5-4F029-109V60-A-XX-UDD\_3000K**

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: P888076  
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: DPT5-4F029-109V60-A-XX-UDD\_3000K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

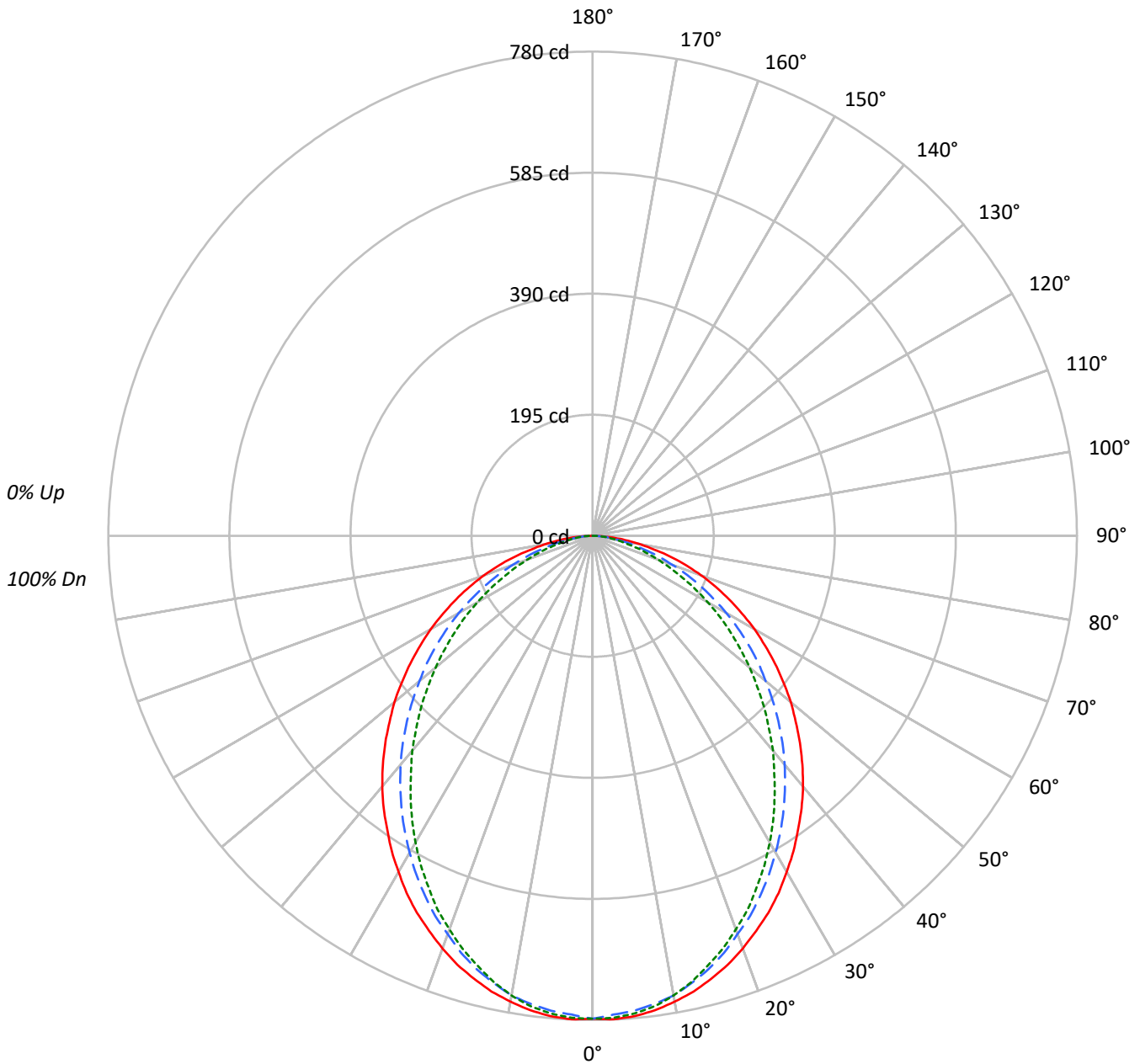
Lumens per Lamp: N/A  
Luminaire Lumens: 1838.0 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

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°	9266	9266	9266
5°	9287	9182	9235
10°	9216	9094	9094
15°	9107	8909	8838
20°	8966	8652	8550
25°	8802	8400	8216
30°	8598	8104	7847
35°	8389	7800	7432
40°	8195	7481	7026
45°	7957	7124	6580
50°	7719	6739	6118
55°	7444	6370	5627
60°	7165	5919	5093
65°	6839	5399	4484
70°	6466	4743	3869
75°	5950	4003	3221
80°	5240	3148	2709
85°	4414	2583	2419



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.2	4.0
10°-20°	204.6	11.1
20°-30°	296.7	16.1
30°-40°	338.0	18.4
40°-50°	329.5	17.9
50°-60°	277.3	15.1
60°-70°	194.3	10.6
70°-80°	99.6	5.4
80°-90°	24.8	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°	574.5	31.3
0°-40°	912.5	49.6
0°-60°	1519.2	82.7
0°-90°	1838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1838.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	778	778	778	778	778	
5°	777	774	768	774	772	74
15°	739	735	723	722	717	208
25°	670	661	639	632	625	308
35°	577	563	536	520	511	361
45°	472	456	423	400	391	364
55°	358	340	307	280	271	320
65°	243	223	192	168	159	240
75°	129	112	87	74	70	137
85°	32	22	19	18	18	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	778.0	778.0	778.0	778.0	778.0
2.5°	779.7	778.0	772.1	778.0	777.3
5°	776.8	774.5	768.0	773.7	772.5
7.5°	770.9	768.5	760.9	765.6	764.5
10°	762.1	760.3	752.0	753.9	752.0
12.5°	752.0	749.7	737.9	739.1	736.2
15°	738.6	735.0	722.6	722.1	716.8
17.5°	724.5	719.2	704.4	701.6	697.4
20°	707.4	701.6	682.7	679.8	674.6
22.5°	688.6	682.7	662.9	656.4	652.1
25°	669.8	660.9	639.2	631.6	625.2
27.5°	648.7	638.0	615.2	605.2	598.8
30°	625.2	614.1	589.3	575.9	570.6
32.5°	602.2	588.8	563.5	548.2	541.3
35°	577.0	562.9	536.5	519.5	511.2
37.5°	552.9	535.8	508.8	488.9	480.5
40°	527.1	509.4	481.2	458.9	451.9
42.5°	499.9	481.7	452.3	431.3	420.1
45°	472.4	455.5	423.0	399.6	390.7
47.5°	443.5	426.1	393.6	369.6	359.6
50°	416.6	397.2	363.7	339.1	330.2
52.5°	387.1	367.3	336.0	309.0	300.2
55°	358.5	339.6	306.8	280.3	271.0
57.5°	329.0	309.0	277.4	251.4	243.3
60°	300.8	280.3	248.5	222.7	213.8
62.5°	271.0	251.4	219.2	195.6	186.8
65°	242.7	222.7	191.6	168.0	159.1
67.5°	214.4	194.6	164.5	142.2	135.3
70°	185.7	165.7	136.2	118.0	111.1
72.5°	157.5	138.1	111.1	94.6	90.6
75°	129.3	111.6	87.0	74.1	70.0
77.5°	100.4	86.3	65.7	55.9	52.3
80°	76.4	62.3	45.9	40.5	39.5
82.5°	52.9	40.5	30.6	28.7	28.2
85°	32.3	21.7	18.9	18.2	17.7
87.5°	13.6	9.4	8.8	8.8	8.2
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)