

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: P888388

Luminaire Tested: **DPT5-4F029-61V60-F-XX-UDD\_5000K**

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: P888388  
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: DPT5-4F029-61V60-F-XX-UDD\_5000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

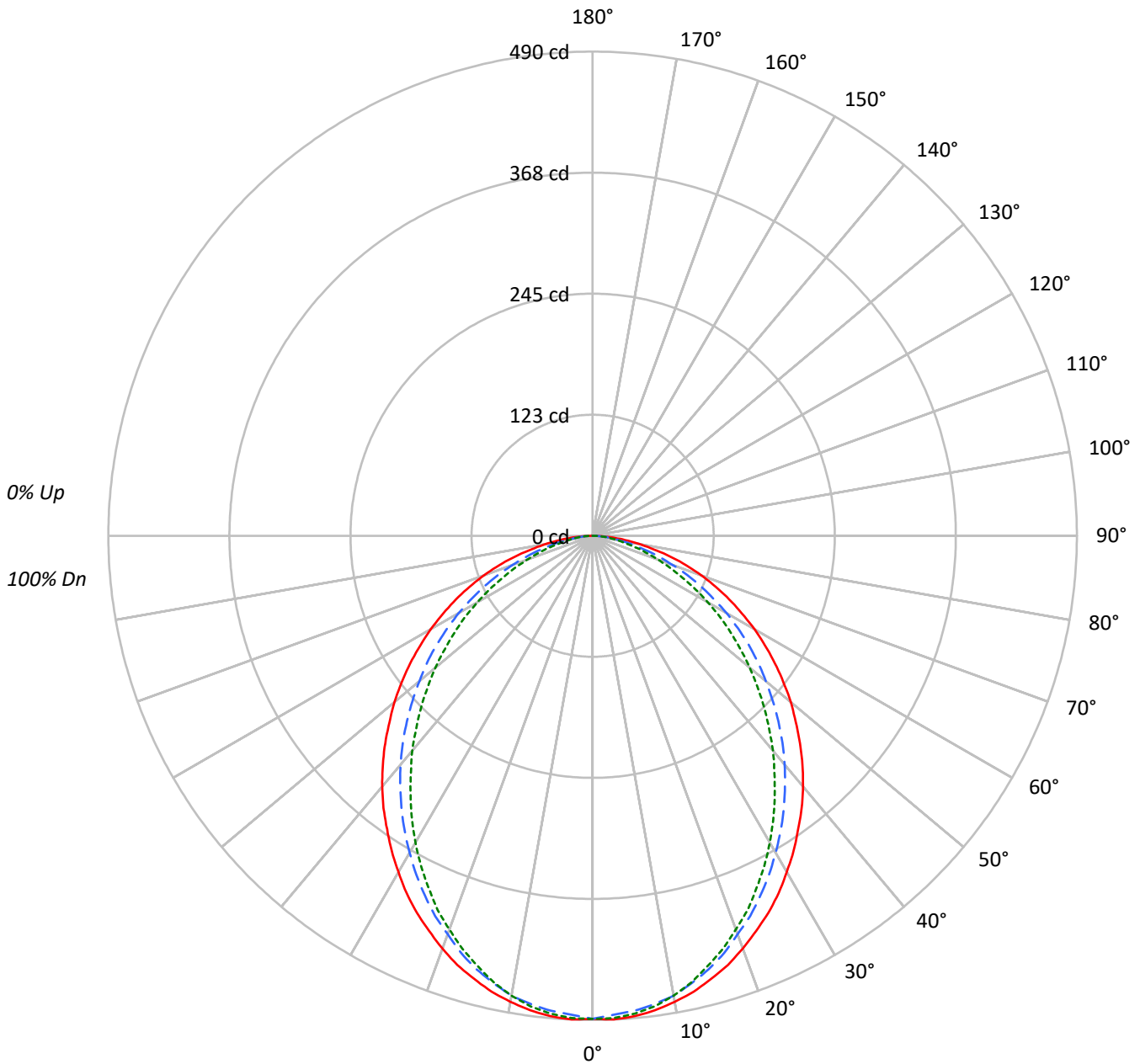
Lumens per Lamp: N/A  
Luminaire Lumens: 1155.0 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.5  
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°	5823	5823	5823
5°	5835	5770	5804
10°	5791	5715	5715
15°	5723	5599	5555
20°	5634	5437	5372
25°	5531	5279	5163
30°	5403	5092	4930
35°	5272	4901	4670
40°	5149	4701	4415
45°	4999	4477	4135
50°	4851	4236	3845
55°	4678	4003	3536
60°	4502	3721	3201
65°	4298	3393	2818
70°	4064	2981	2431
75°	3736	2517	2025
80°	3292	1975	1701
85°	2774	1612	1517



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.0	4.0
10°-20°	128.6	11.1
20°-30°	186.4	16.1
30°-40°	212.4	18.4
40°-50°	207.0	17.9
50°-60°	174.2	15.1
60°-70°	122.1	10.6
70°-80°	62.6	5.4
80°-90°	15.6	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°	361.0	31.3
0°-40°	573.4	49.6
0°-60°	954.7	82.7
0°-90°	1155.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1155.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	489	489	489	489	489	
5°	488	487	483	486	486	46
15°	464	462	454	454	450	131
25°	421	415	402	397	393	194
35°	363	354	337	326	321	227
45°	297	286	266	251	246	229
55°	225	213	193	176	170	201
65°	152	140	120	106	100	151
75°	81	70	55	47	44	86
85°	20	14	12	11	11	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	488.9	488.9	488.9	488.9	488.9
2.5°	490.0	488.9	485.2	488.9	488.5
5°	488.1	486.7	482.6	486.2	485.5
7.5°	484.4	482.9	478.1	481.1	480.4
10°	478.9	477.8	472.6	473.8	472.6
12.5°	472.6	471.1	463.7	464.4	462.7
15°	464.2	461.9	454.1	453.8	450.5
17.5°	455.3	452.0	442.7	440.9	438.3
20°	444.5	440.9	429.0	427.2	423.9
22.5°	432.7	429.0	416.6	412.5	409.8
25°	420.9	415.3	401.7	396.9	392.9
27.5°	407.7	400.9	386.6	380.3	376.3
30°	392.9	385.9	370.3	361.9	358.5
32.5°	378.4	370.0	354.1	344.5	340.1
35°	362.6	353.8	337.1	326.4	321.2
37.5°	347.5	336.7	319.7	307.3	302.0
40°	331.2	320.1	302.4	288.3	284.0
42.5°	314.2	302.7	284.2	271.0	264.0
45°	296.8	286.2	265.8	251.1	245.5
47.5°	278.7	267.7	247.3	232.3	226.0
50°	261.8	249.6	228.6	213.1	207.5
52.5°	243.3	230.8	211.2	194.2	188.6
55°	225.3	213.4	192.8	176.2	170.3
57.5°	206.8	194.2	174.3	158.0	152.9
60°	189.0	176.2	156.2	139.9	134.4
62.5°	170.3	158.0	137.7	122.9	117.4
65°	152.5	139.9	120.4	105.5	100.0
67.5°	134.7	122.3	103.4	89.4	85.0
70°	116.7	104.1	85.6	74.2	69.8
72.5°	99.0	86.8	69.8	59.5	56.9
75°	81.2	70.1	54.7	46.6	44.0
77.5°	63.1	54.2	41.3	35.1	32.9
80°	48.0	39.2	28.8	25.5	24.8
82.5°	33.2	25.5	19.2	18.0	17.7
85°	20.3	13.6	11.8	11.4	11.1
87.5°	8.6	5.9	5.5	5.5	5.1
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)