

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: P888366

Luminaire Tested: **DPT5-4F029-127V60-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: P888366  
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: DPT5-4F029-127V60-F-XX-UDD\_5000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

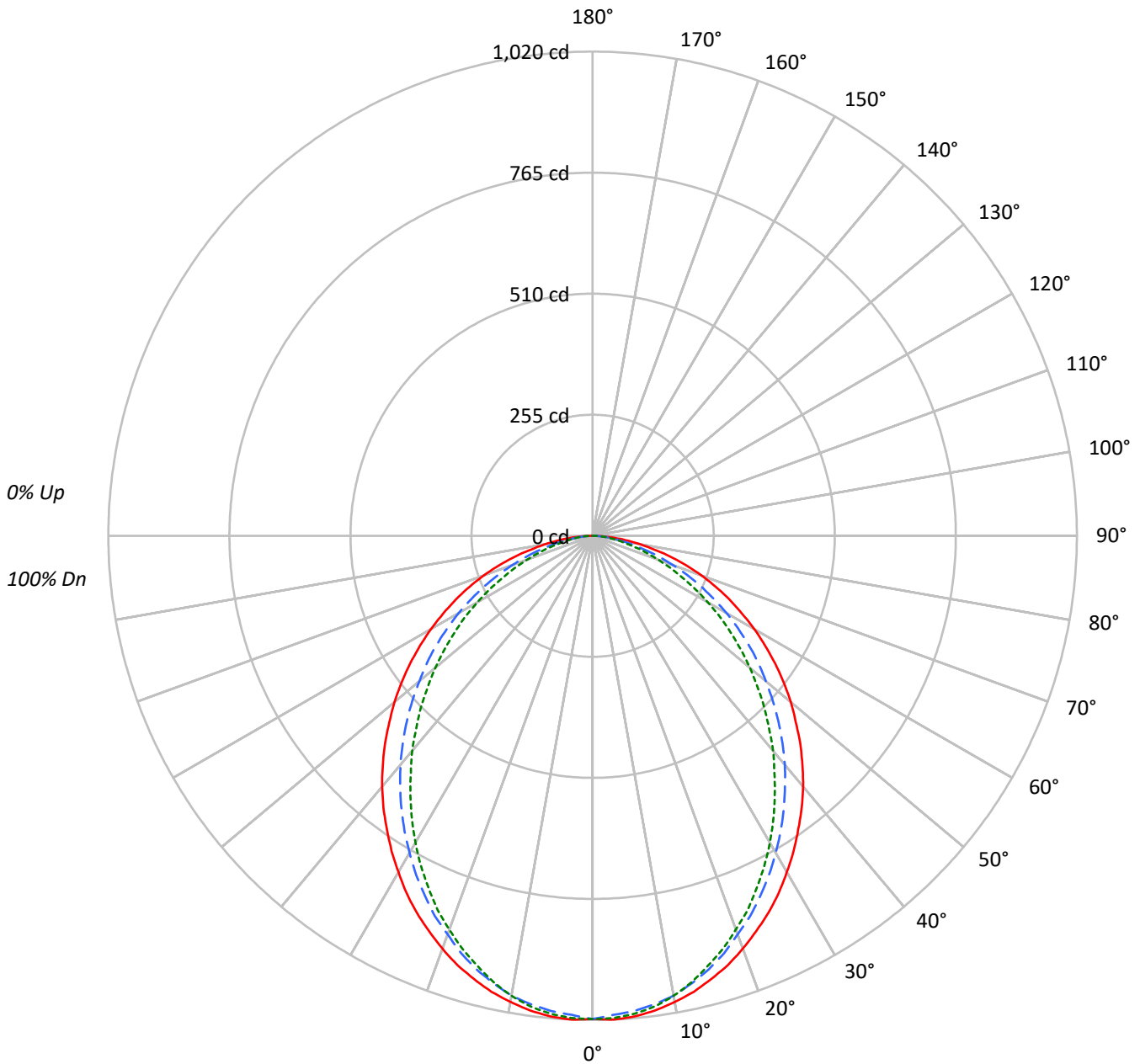
Lumens per Lamp: N/A  
Luminaire Lumens: 2405.0 lumens  
Efficiency: N/A  
Efficacy: 100.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 24  
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

TEST NUMBER: P888366

CATALOG NUMBER: DPT5-4F029-127V60-F-XX-UDD\_5000K

### 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°	12124	12124	12124
5°	12151	12014	12085
10°	12059	11900	11900
15°	11917	11658	11565
20°	11731	11322	11186
25°	11517	10991	10749
30°	11249	10604	10267
35°	10977	10206	9725
40°	10723	9788	9193
45°	10410	9322	8612
50°	10100	8818	8006
55°	9740	8337	7361
60°	9375	7746	6665
65°	8950	7065	5867
70°	8462	6209	5060
75°	7781	5237	4215
80°	6858	4115	3539
85°	5767	3375	3157



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.8	4.0
10°-20°	267.7	11.1
20°-30°	388.2	16.1
30°-40°	442.3	18.4
40°-50°	431.1	17.9
50°-60°	362.8	15.1
60°-70°	254.2	10.6
70°-80°	130.4	5.4
80°-90°	32.5	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°	751.7	31.3
0°-40°	1194.0	49.6
0°-60°	1987.9	82.7
0°-90°	2405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2405.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1018	1018	1018	1018	1018	
5°	1016	1013	1005	1012	1011	96
15°	966	962	946	945	938	273
25°	876	865	836	826	818	403
35°	755	737	702	680	669	473
45°	618	596	554	523	511	477
55°	469	444	402	367	354	419
65°	318	291	251	220	208	314
75°	169	146	114	97	92	179
85°	42	28	25	24	23	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1018.0	1018.0	1018.0	1018.0	1018.0
2.5°	1020.3	1018.0	1010.3	1018.0	1017.1
5°	1016.4	1013.4	1004.9	1012.4	1010.9
7.5°	1008.7	1005.6	995.6	1001.7	1000.3
10°	997.2	994.9	984.0	986.5	984.0
12.5°	984.0	980.9	965.5	967.1	963.4
15°	966.5	961.8	945.5	944.8	938.0
17.5°	948.0	941.1	921.7	918.0	912.6
20°	925.6	918.0	893.3	889.5	882.6
22.5°	901.0	893.3	867.4	858.8	853.3
25°	876.4	864.8	836.4	826.5	818.0
27.5°	848.8	834.9	804.9	791.9	783.5
30°	818.0	803.5	771.1	753.6	746.6
32.5°	787.9	770.4	737.3	717.4	708.2
35°	755.0	736.6	702.0	679.7	668.9
37.5°	723.5	701.1	665.7	639.8	628.8
40°	689.7	666.6	629.6	600.4	591.3
42.5°	654.2	630.4	591.9	564.3	549.6
45°	618.1	596.0	553.5	522.8	511.3
47.5°	580.3	557.5	515.0	483.6	470.5
50°	545.1	519.7	475.9	443.7	432.1
52.5°	506.6	480.6	439.7	404.3	392.8
55°	469.1	444.4	401.5	366.8	354.5
57.5°	430.6	404.3	363.0	329.0	318.3
60°	393.6	366.8	325.2	291.4	279.8
62.5°	354.5	329.0	286.8	256.0	244.4
65°	317.6	291.4	250.7	219.8	208.2
67.5°	280.5	254.6	215.2	186.1	177.0
70°	243.0	216.8	178.3	154.5	145.3
72.5°	206.1	180.7	145.3	123.8	118.5
75°	169.1	146.0	113.8	97.0	91.6
77.5°	131.3	113.0	86.0	73.2	68.5
80°	100.0	81.6	60.0	53.1	51.6
82.5°	69.2	53.1	40.1	37.5	36.9
85°	42.2	28.4	24.7	23.8	23.1
87.5°	17.8	12.3	11.6	11.6	10.7
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)