

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: P888398

Luminaire Tested: **DPT5-4F029-85V60-F-XX-UDD\_4500K**

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: P888398  
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: DPT5-4F029-85V60-F-XX-UDD\_4500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

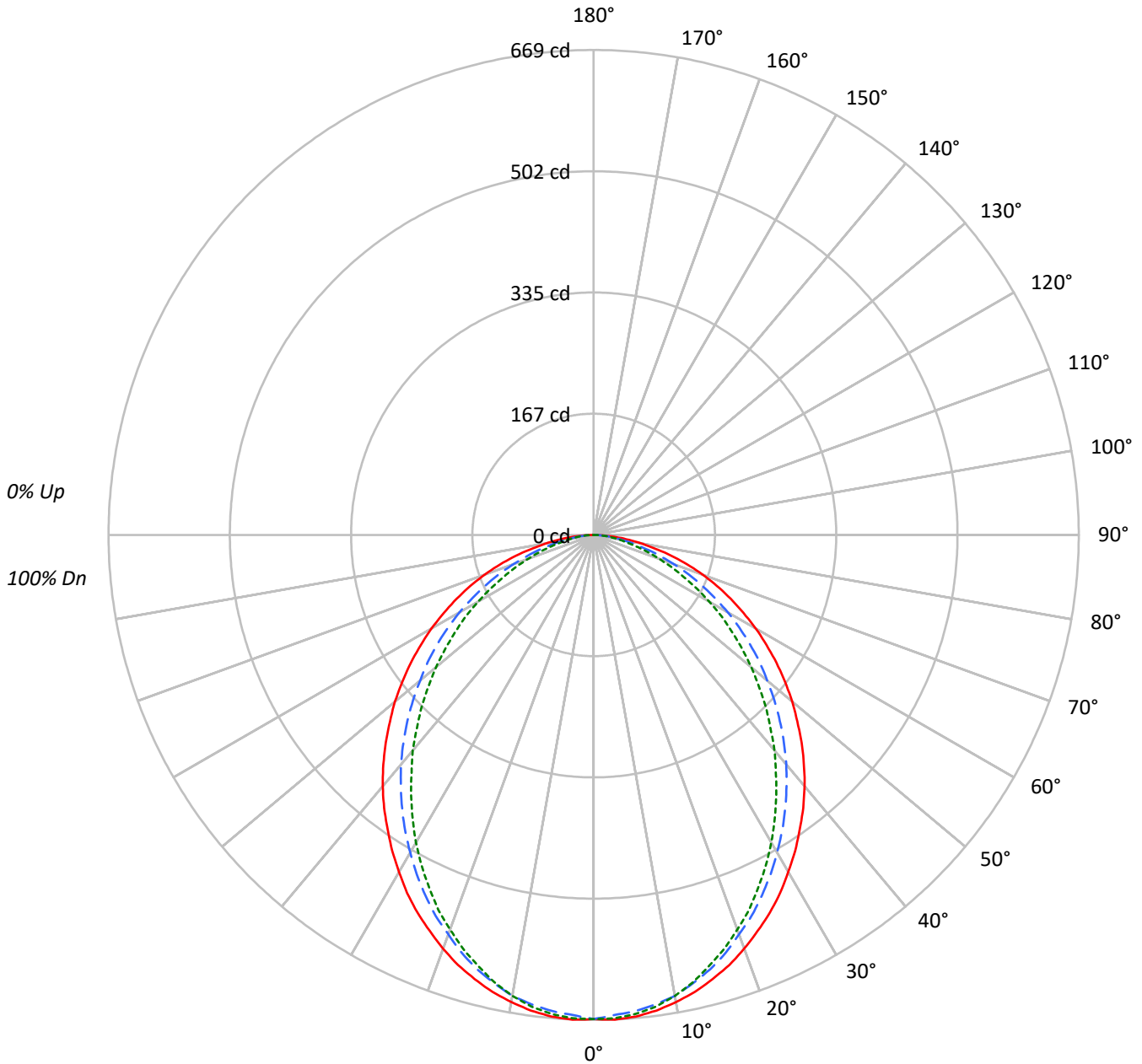
Lumens per Lamp: N/A  
Luminaire Lumens: 1578.0 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.1  
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°	7954	7954	7954
5°	7973	7882	7930
10°	7913	7809	7809
15°	7820	7649	7588
20°	7697	7429	7339
25°	7556	7212	7053
30°	7381	6959	6737
35°	7203	6697	6381
40°	7035	6422	6032
45°	6831	6117	5651
50°	6626	5786	5253
55°	6391	5469	4830
60°	6153	5083	4373
65°	5873	4636	3849
70°	5554	4074	3322
75°	5108	3437	2766
80°	4499	2702	2325
85°	3785	2214	2077



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.9	4.0
10°-20°	175.7	11.1
20°-30°	254.7	16.1
30°-40°	290.2	18.4
40°-50°	282.8	17.9
50°-60°	238.1	15.1
60°-70°	166.8	10.6
70°-80°	85.5	5.4
80°-90°	21.3	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°	493.2	31.3
0°-40°	783.4	49.6
0°-60°	1304.3	82.7
0°-90°	1578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1578.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	668	668	668	668	668	
5°	667	665	659	664	663	63
15°	634	631	620	620	615	179
25°	575	567	549	542	537	265
35°	495	483	461	446	439	310
45°	406	391	363	343	336	313
55°	308	292	263	241	233	275
65°	208	191	164	144	137	206
75°	111	96	75	64	60	117
85°	28	19	16	16	15	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	667.9	667.9	667.9	667.9	667.9
2.5°	669.4	667.9	662.9	667.9	667.4
5°	666.9	664.9	659.3	664.3	663.3
7.5°	661.9	659.8	653.2	657.3	656.3
10°	654.3	652.8	645.7	647.3	645.7
12.5°	645.7	643.6	633.5	634.5	632.1
15°	634.2	631.1	620.4	619.9	615.4
17.5°	622.0	617.5	604.8	602.3	598.8
20°	607.3	602.3	586.2	583.6	579.1
22.5°	591.2	586.2	569.1	563.5	559.9
25°	575.0	567.4	548.8	542.3	536.7
27.5°	557.0	547.8	528.1	519.6	514.1
30°	536.7	527.2	506.0	494.4	489.9
32.5°	517.0	505.5	483.8	470.7	464.7
35°	495.4	483.3	460.6	446.0	438.9
37.5°	474.7	460.0	436.8	419.8	412.6
40°	452.5	437.4	413.1	393.9	388.0
42.5°	429.2	413.6	388.3	370.3	360.6
45°	405.6	391.0	363.2	343.0	335.5
47.5°	380.8	365.8	337.9	317.3	308.7
50°	357.6	341.0	312.3	291.1	283.5
52.5°	332.4	315.3	288.5	265.3	257.7
55°	307.8	291.6	263.4	240.7	232.6
57.5°	282.5	265.3	238.1	215.9	208.9
60°	258.3	240.7	213.4	191.2	183.6
62.5°	232.6	215.9	188.2	168.0	160.4
65°	208.4	191.2	164.5	144.2	136.6
67.5°	184.1	167.0	141.2	122.1	116.1
70°	159.5	142.2	117.0	101.3	95.4
72.5°	135.2	118.6	95.4	81.2	77.8
75°	111.0	95.8	74.7	63.6	60.1
77.5°	86.2	74.1	56.4	48.0	44.9
80°	65.6	53.5	39.4	34.8	33.9
82.5°	45.4	34.8	26.3	24.6	24.2
85°	27.7	18.6	16.2	15.6	15.2
87.5°	11.7	8.0	7.6	7.6	7.0
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)