

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: P888400

Luminaire Tested: **DPT5-4F029-85V60-F-XX-UDD\_6500K**

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: P888400  
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\_6500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

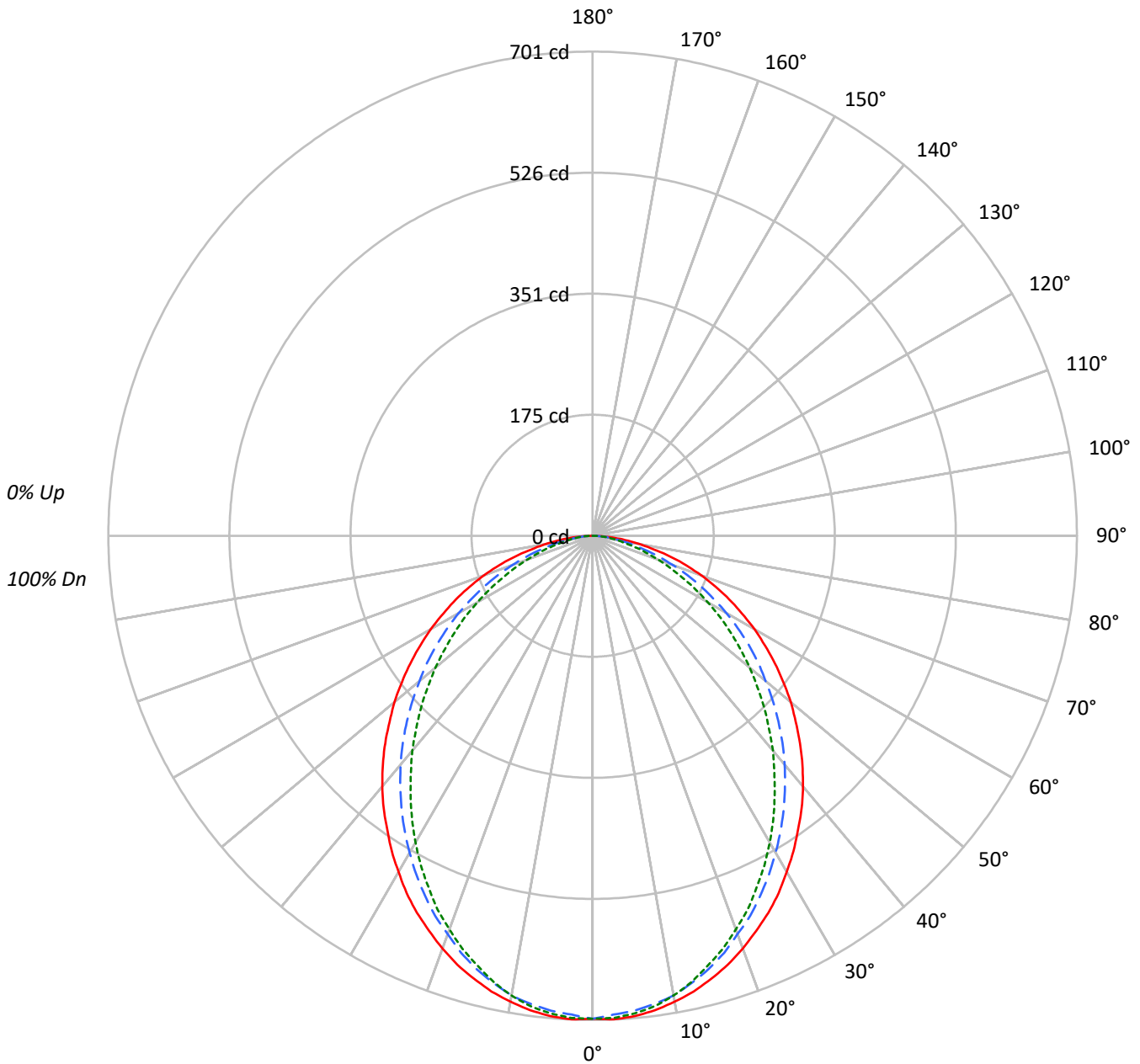
Lumens per Lamp: N/A  
Luminaire Lumens: 1652.0 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	8328	8328	8328
5°	8347	8251	8302
10°	8284	8174	8174
15°	8186	8008	7944
20°	8058	7777	7684
25°	7911	7551	7384
30°	7727	7284	7052
35°	7540	7011	6679
40°	7365	6724	6315
45°	7151	6404	5915
50°	6937	6057	5499
55°	6690	5727	5056
60°	6441	5321	4578
65°	6149	4853	4030
70°	5812	4266	3475
75°	5347	3598	2894
80°	4712	2826	2435
85°	3963	2309	2173



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.8	4.0
10°-20°	183.9	11.1
20°-30°	266.7	16.1
30°-40°	303.8	18.4
40°-50°	296.1	17.9
50°-60°	249.2	15.1
60°-70°	174.6	10.6
70°-80°	89.5	5.4
80°-90°	22.3	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°	516.4	31.3
0°-40°	820.2	49.6
0°-60°	1365.5	82.7
0°-90°	1652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1652.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	698	696	690	695	694	66
15°	664	661	650	649	644	187
25°	602	594	575	568	562	277
35°	519	506	482	467	459	325
45°	425	409	380	359	351	327
55°	322	305	276	252	244	288
65°	218	200	172	151	143	216
75°	116	100	78	67	63	123
85°	29	20	17	16	16	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	699.3	699.3	699.3	699.3	699.3
2.5°	700.8	699.3	694.0	699.3	698.7
5°	698.2	696.1	690.2	695.4	694.4
7.5°	692.9	690.7	683.9	688.1	687.1
10°	685.0	683.4	675.9	677.6	675.9
12.5°	675.9	673.8	663.2	664.3	661.7
15°	663.9	660.7	649.5	649.0	644.3
17.5°	651.2	646.5	633.1	630.6	626.9
20°	635.8	630.6	613.6	611.0	606.3
22.5°	618.9	613.6	595.8	589.9	586.1
25°	602.0	594.0	574.6	567.7	561.9
27.5°	583.1	573.5	552.9	544.0	538.2
30°	561.9	551.9	529.7	517.6	512.8
32.5°	541.2	529.2	506.5	492.8	486.5
35°	518.6	506.0	482.2	466.9	459.4
37.5°	497.0	481.6	457.3	439.5	431.9
40°	473.7	457.9	432.5	412.4	406.2
42.5°	449.4	433.0	406.5	387.6	377.5
45°	424.6	409.4	380.2	359.1	351.2
47.5°	398.6	382.9	353.7	332.2	323.2
50°	374.4	357.0	326.9	304.8	296.8
52.5°	348.0	330.1	302.0	277.7	269.8
55°	322.2	305.3	275.8	252.0	243.5
57.5°	295.7	277.7	249.3	226.0	218.7
60°	270.4	252.0	223.4	200.1	192.2
62.5°	243.5	226.0	197.0	175.8	167.9
65°	218.2	200.1	172.2	151.0	143.0
67.5°	192.7	174.9	147.8	127.8	121.6
70°	166.9	148.9	122.5	106.1	99.8
72.5°	141.6	124.1	99.8	85.0	81.4
75°	116.2	100.3	78.2	66.6	62.9
77.5°	90.2	77.6	59.1	50.3	47.0
80°	68.7	56.0	41.2	36.4	35.5
82.5°	47.5	36.4	27.5	25.8	25.4
85°	29.0	19.5	16.9	16.4	15.9
87.5°	12.2	8.4	7.9	7.9	7.3
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)