

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: P888349

Luminaire Tested: **DPT5-4F029-109S40-F-XX-UDD**

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: P888349  
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: DPT5-4F029-109S40-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

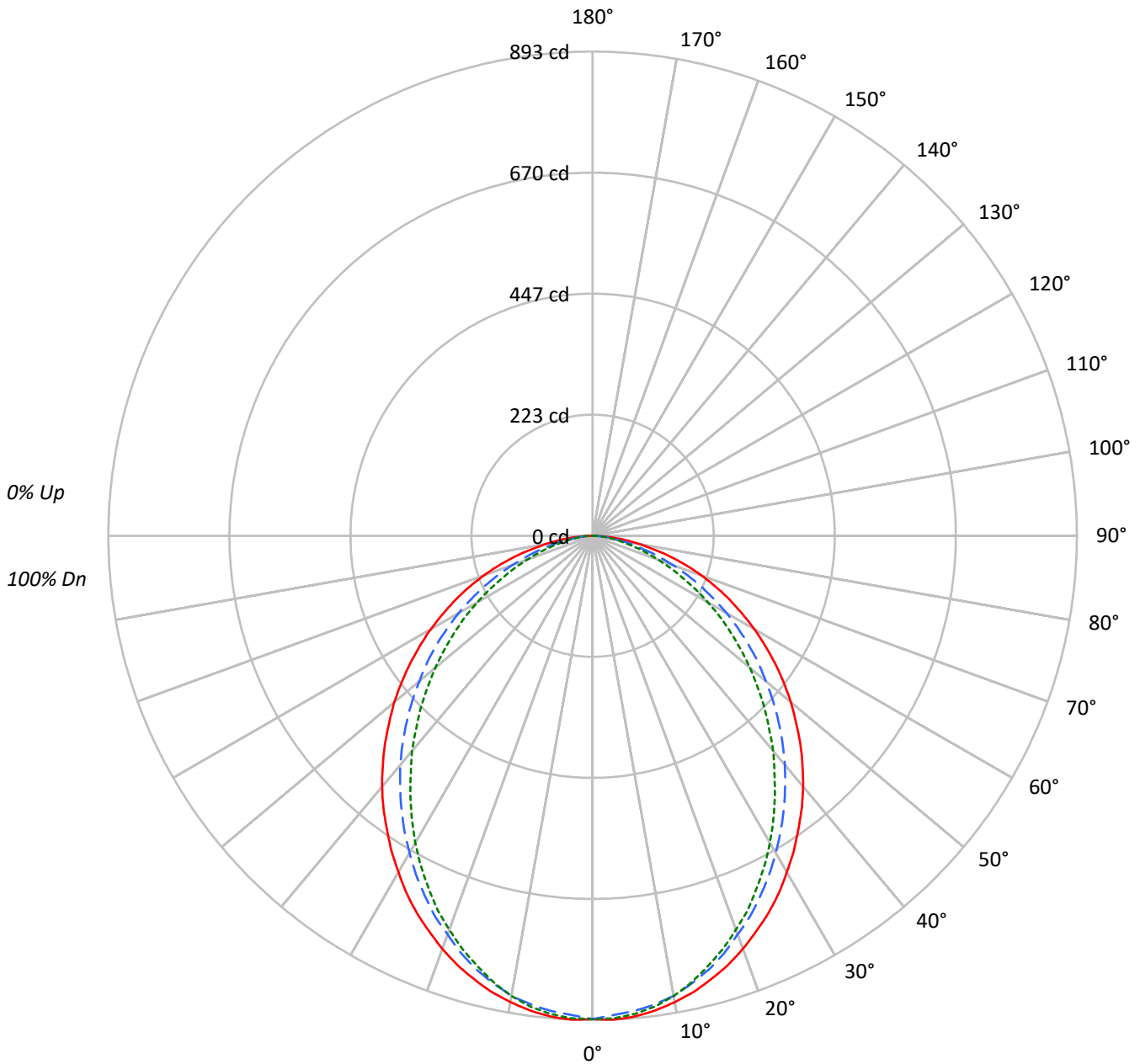
Lumens per Lamp: N/A  
Luminaire Lumens: 2106.0 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	10616	10616	10616
5°	10641	10519	10583
10°	10560	10421	10421
15°	10435	10209	10128
20°	10272	9915	9796
25°	10084	9624	9413
30°	9851	9287	8991
35°	9612	8937	8515
40°	9389	8573	8050
45°	9117	8164	7540
50°	8843	7721	7011
55°	8528	7301	6447
60°	8210	6781	5836
65°	7837	6186	5137
70°	7410	5436	4433
75°	6815	4588	3690
80°	6001	3608	3100
85°	5056	2952	2760



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	4.0
10°-20°	234.4	11.1
20°-30°	339.9	16.1
30°-40°	387.3	18.4
40°-50°	377.5	17.9
50°-60°	317.7	15.1
60°-70°	222.6	10.6
70°-80°	114.1	5.4
80°-90°	28.5	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°	658.3	31.3
0°-40°	1045.6	49.6
0°-60°	1740.8	82.7
0°-90°	2106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2106.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	890	887	880	887	885	84
15°	846	842	828	827	821	239
25°	767	757	732	724	716	353
35°	661	645	615	595	586	414
45°	541	522	485	458	448	417
55°	411	389	352	321	310	367
65°	278	255	220	192	182	275
75°	148	128	100	85	80	157
85°	37	25	22	21	20	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	891.4	891.4	891.4	891.4	891.4
2.5°	893.4	891.4	884.7	891.4	890.7
5°	890.1	887.4	879.9	886.6	885.2
7.5°	883.3	880.6	871.8	877.2	875.9
10°	873.2	871.2	861.7	863.8	861.7
12.5°	861.7	859.0	845.5	846.8	843.6
15°	846.3	842.2	828.0	827.4	821.4
17.5°	830.1	824.1	807.1	803.9	799.1
20°	810.5	803.9	782.3	778.9	772.9
22.5°	789.0	782.3	759.5	752.1	747.2
25°	767.4	757.3	732.4	723.7	716.3
27.5°	743.3	731.1	704.8	693.5	686.1
30°	716.3	703.6	675.3	659.9	653.8
32.5°	690.0	674.6	645.7	628.2	620.2
35°	661.1	645.0	614.7	595.2	585.7
37.5°	633.5	613.9	583.0	560.2	550.6
40°	603.9	583.7	551.4	525.8	517.8
42.5°	572.8	552.0	518.3	494.2	481.3
45°	541.3	521.9	484.7	457.8	447.7
47.5°	508.2	488.2	451.0	423.5	412.0
50°	477.3	455.1	416.7	388.5	378.4
52.5°	443.6	420.9	385.0	354.0	343.9
55°	410.7	389.1	351.6	321.2	310.5
57.5°	377.0	354.0	317.8	288.1	278.7
60°	344.7	321.2	284.7	255.1	245.0
62.5°	310.5	288.1	251.1	224.2	214.1
65°	278.1	255.1	219.5	192.4	182.3
67.5°	245.6	222.9	188.5	163.0	155.0
70°	212.8	189.8	156.1	135.3	127.3
72.5°	180.5	158.2	127.3	108.4	103.8
75°	148.1	127.9	99.7	84.9	80.2
77.5°	115.0	98.9	75.3	64.1	59.9
80°	87.5	71.4	52.6	46.5	45.2
82.5°	60.6	46.5	35.1	32.8	32.3
85°	37.0	24.9	21.6	20.9	20.2
87.5°	15.6	10.7	10.1	10.1	9.4
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)