

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: P888314

Luminaire Tested: **DPT5-4F021-37S30-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: P888314  
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: DPT5-4F021-37S30-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

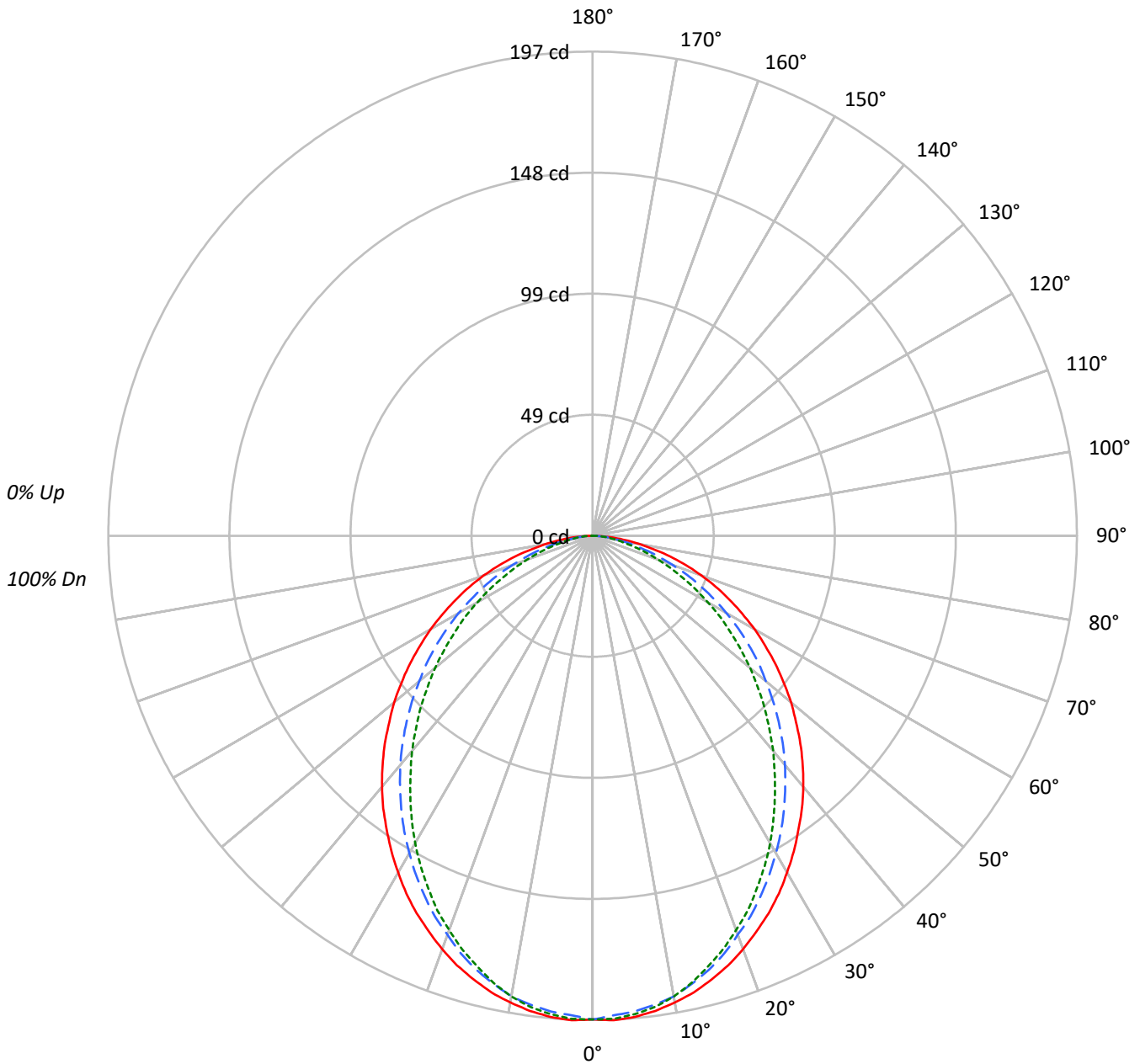
Lumens per Lamp: N/A  
Luminaire Lumens: 465.0 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	3293	3293	3293
5°	3301	3264	3282
10°	3276	3234	3234
15°	3238	3167	3143
20°	3188	3075	3040
25°	3128	2986	2921
30°	3057	2881	2790
35°	2983	2772	2641
40°	2912	2658	2497
45°	2828	2532	2340
50°	2744	2395	2176
55°	2646	2264	1998
60°	2547	2105	1811
65°	2431	1920	1596
70°	2300	1688	1375
75°	2114	1422	1144
80°	1860	1118	964
85°	1574	922	864



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.5	4.0
10°-20°	51.8	11.1
20°-30°	75.1	16.1
30°-40°	85.5	18.4
40°-50°	83.4	17.9
50°-60°	70.1	15.1
60°-70°	49.2	10.6
70°-80°	25.2	5.4
80°-90°	6.3	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°	145.3	31.3
0°-40°	230.9	49.6
0°-60°	384.4	82.7
0°-90°	465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	465.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	197	197	197	197	197	
5°	196	196	194	196	195	19
15°	187	186	183	183	181	53
25°	169	167	162	160	158	78
35°	146	142	136	131	129	91
45°	120	115	107	101	99	92
55°	91	86	78	71	68	81
65°	61	56	48	42	40	61
75°	33	28	22	19	18	35
85°	8	6	5	5	4	9
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	196.8	196.8	196.8	196.8	196.8
2.5°	197.3	196.8	195.3	196.8	196.7
5°	196.5	195.9	194.3	195.7	195.4
7.5°	195.0	194.4	192.5	193.7	193.4
10°	192.8	192.4	190.3	190.7	190.3
12.5°	190.3	189.7	186.7	187.0	186.3
15°	186.9	186.0	182.8	182.7	181.4
17.5°	183.3	182.0	178.2	177.5	176.4
20°	179.0	177.5	172.7	172.0	170.7
22.5°	174.2	172.7	167.7	166.1	165.0
25°	169.4	167.2	161.7	159.8	158.2
27.5°	164.1	161.4	155.6	153.1	151.5
30°	158.2	155.4	149.1	145.7	144.4
32.5°	152.3	149.0	142.6	138.7	136.9
35°	146.0	142.4	135.7	131.4	129.3
37.5°	139.9	135.6	128.7	123.7	121.6
40°	133.3	128.9	121.7	116.1	114.3
42.5°	126.5	121.9	114.4	109.1	106.3
45°	119.5	115.2	107.0	101.1	98.9
47.5°	112.2	107.8	99.6	93.5	91.0
50°	105.4	100.5	92.0	85.8	83.6
52.5°	97.9	92.9	85.0	78.2	75.9
55°	90.7	85.9	77.6	70.9	68.5
57.5°	83.2	78.2	70.2	63.6	61.5
60°	76.1	70.9	62.9	56.3	54.1
62.5°	68.5	63.6	55.5	49.5	47.3
65°	61.4	56.3	48.5	42.5	40.3
67.5°	54.2	49.2	41.6	36.0	34.2
70°	47.0	41.9	34.5	29.9	28.1
72.5°	39.8	34.9	28.1	23.9	22.9
75°	32.7	28.2	22.0	18.8	17.7
77.5°	25.4	21.8	16.6	14.1	13.2
80°	19.3	15.8	11.6	10.3	10.0
82.5°	13.4	10.3	7.7	7.3	7.1
85°	8.2	5.5	4.8	4.6	4.5
87.5°	3.4	2.4	2.2	2.2	2.1
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)