

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: P888343

Luminaire Tested: **DPT5-4F021-85V60-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: P888343  
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: DPT5-4F021-85V60-F-XX-UDD\_4500K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

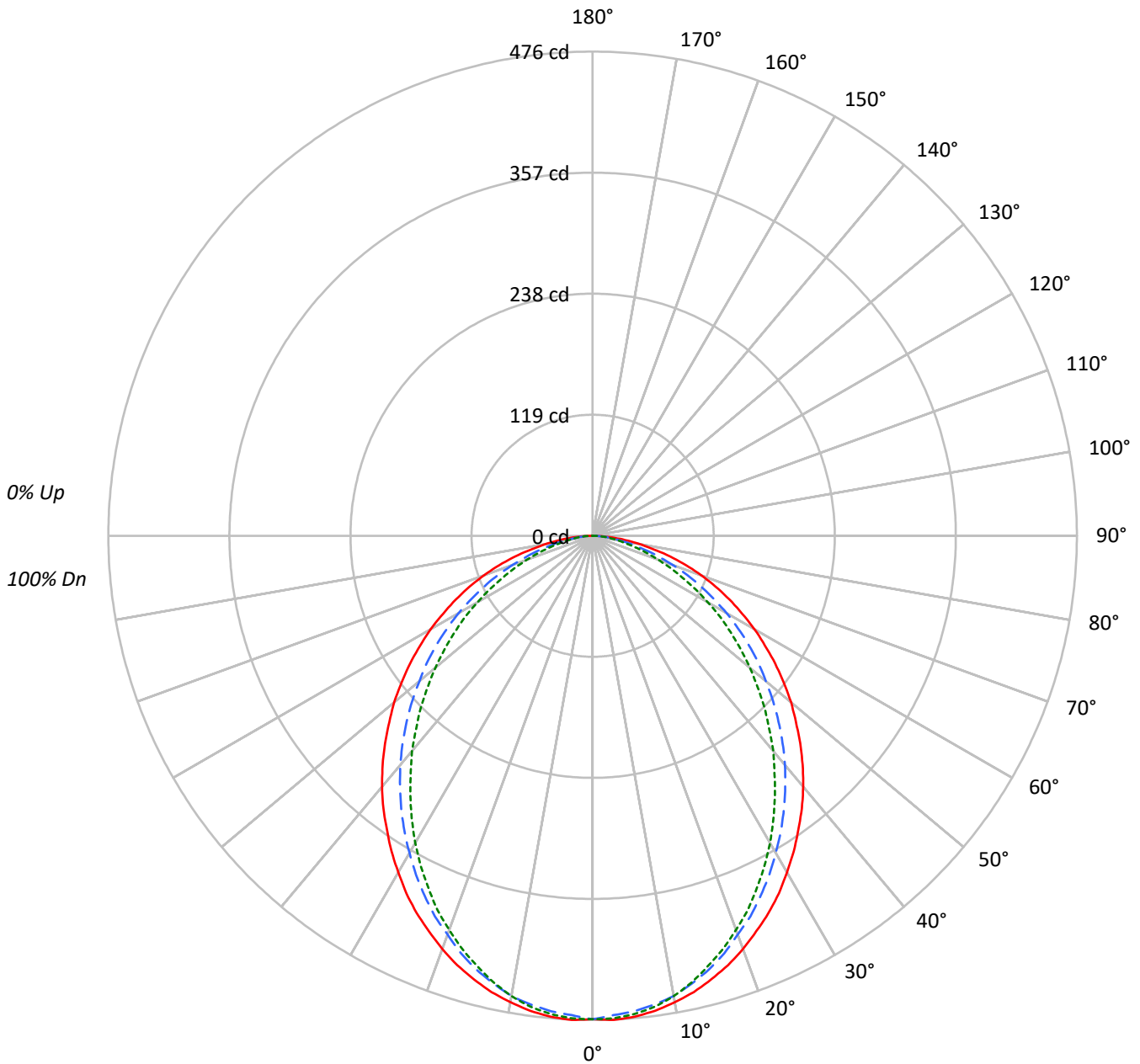
Lumens per Lamp: N/A  
Luminaire Lumens: 1123.0 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.4  
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°	7972	7881	7929
10°	7911	7808	7808
15°	7818	7649	7588
20°	7696	7428	7339
25°	7555	7212	7053
30°	7381	6958	6736
35°	7201	6696	6380
40°	7034	6422	6031
45°	6830	6115	5649
50°	6625	5785	5253
55°	6389	5470	4831
60°	6151	5080	4374
65°	5872	4637	3849
70°	5553	4071	3322
75°	5108	3433	2767
80°	4500	2698	2322
85°	3782	2208	2074



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.7	4.0
10°-20°	125.0	11.1
20°-30°	181.3	16.1
30°-40°	206.5	18.4
40°-50°	201.3	17.9
50°-60°	169.4	15.1
60°-70°	118.7	10.6
70°-80°	60.9	5.4
80°-90°	15.2	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°	351.0	31.3
0°-40°	557.5	49.6
0°-60°	928.2	82.7
0°-90°	1123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1123.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	475	475	475	475	475	
5°	475	473	469	473	472	45
15°	451	449	442	441	438	127
25°	409	404	391	386	382	188
35°	352	344	328	317	312	221
45°	289	278	258	244	239	223
55°	219	208	188	171	166	196
65°	148	136	117	103	97	147
75°	79	68	53	45	43	83
85°	20	13	12	11	11	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	475.3	475.3	475.3	475.3	475.3
2.5°	476.4	475.3	471.7	475.3	474.9
5°	474.6	473.2	469.2	472.7	472.0
7.5°	471.0	469.5	464.9	467.8	467.1
10°	465.6	464.6	459.5	460.6	459.5
12.5°	459.5	458.0	450.8	451.6	449.8
15°	451.3	449.1	441.5	441.2	438.0
17.5°	442.6	439.4	430.4	428.7	426.1
20°	432.2	428.7	417.1	415.3	412.1
22.5°	420.7	417.1	405.0	401.0	398.4
25°	409.2	403.8	390.6	385.9	382.0
27.5°	396.4	389.8	375.9	369.8	365.9
30°	382.0	375.2	360.1	351.9	348.6
32.5°	367.9	359.7	344.3	335.0	330.7
35°	352.5	344.0	327.8	317.4	312.3
37.5°	337.8	327.4	310.9	298.7	293.6
40°	322.0	311.3	294.0	280.4	276.1
42.5°	305.5	294.3	276.4	263.5	256.7
45°	288.6	278.3	258.4	244.1	238.7
47.5°	271.0	260.3	240.5	225.8	219.7
50°	254.5	242.7	222.2	207.2	201.8
52.5°	236.5	224.4	205.3	188.8	183.4
55°	219.0	207.5	187.5	171.3	165.6
57.5°	201.0	188.8	169.5	153.6	148.6
60°	183.8	171.3	151.8	136.1	130.7
62.5°	165.6	153.6	133.9	119.5	114.1
65°	148.3	136.1	117.1	102.6	97.2
67.5°	131.0	118.9	100.5	86.9	82.6
70°	113.5	101.2	83.2	72.1	67.9
72.5°	96.2	84.4	67.9	57.8	55.3
75°	79.0	68.2	53.1	45.3	42.8
77.5°	61.3	52.7	40.2	34.2	32.0
80°	46.7	38.1	28.0	24.8	24.1
82.5°	32.3	24.8	18.7	17.5	17.2
85°	19.7	13.3	11.5	11.1	10.8
87.5°	8.3	5.7	5.4	5.4	5.0
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)