

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: P888307

Luminaire Tested: **DPT5-4F021-127V60-F-XX-UDD\_3000K**

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: P888307  
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: DPT5-4F021-127V60-F-XX-UDD\_3000K  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

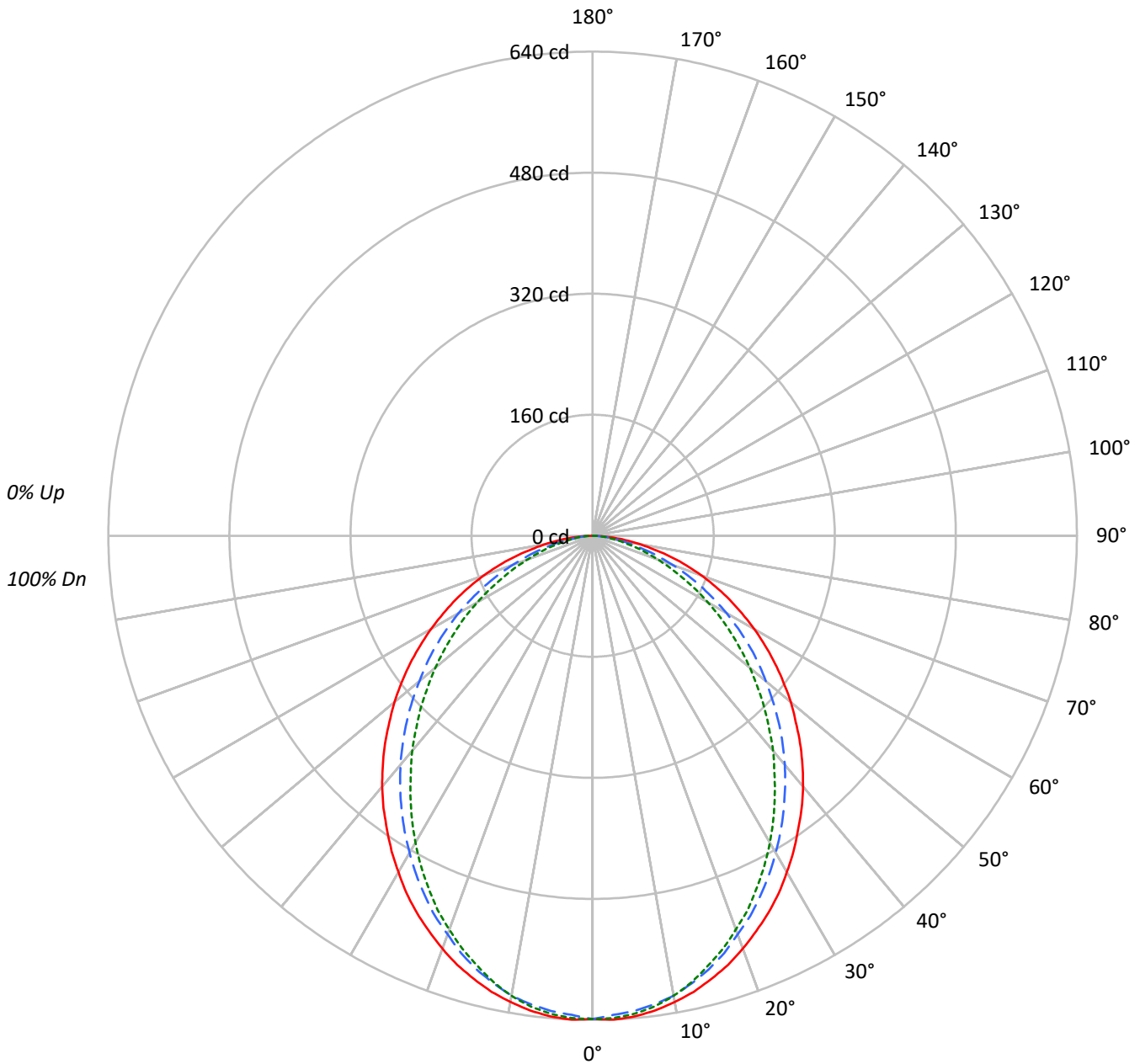
Lumens per Lamp: N/A  
Luminaire Lumens: 1509.0 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')  
CIE Type: Direct

Input Watts (W): 17  
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°	10688	10688	10688
5°	10712	10591	10655
10°	10632	10491	10491
15°	10505	10278	10195
20°	10341	9981	9862
25°	10153	9690	9477
30°	9918	9348	9051
35°	9677	8997	8574
40°	9452	8631	8104
45°	9177	8219	7592
50°	8903	7773	7058
55°	8586	7349	6491
60°	8266	6827	5877
65°	7891	6228	5171
70°	7461	5475	4462
75°	6860	4616	3711
80°	6042	3633	3122
85°	5088	2976	2784



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.1	4.0
10°-20°	168.0	11.1
20°-30°	243.6	16.1
30°-40°	277.5	18.4
40°-50°	270.5	17.9
50°-60°	227.6	15.1
60°-70°	159.5	10.6
70°-80°	81.8	5.4
80°-90°	20.4	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°	471.7	31.3
0°-40°	749.2	49.6
0°-60°	1247.3	82.7
0°-90°	1509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1509.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	639	639	639	639	639	
5°	638	636	630	635	634	60
15°	606	604	593	593	588	171
25°	550	543	525	519	513	253
35°	474	462	440	426	420	297
45°	388	374	347	328	321	299
55°	294	279	252	230	222	263
65°	199	183	157	138	131	197
75°	106	92	71	61	57	112
85°	26	18	16	15	14	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	638.7	638.7	638.7	638.7	638.7
2.5°	640.2	638.7	633.9	638.7	638.2
5°	637.7	635.9	630.5	635.2	634.3
7.5°	632.9	630.9	624.7	628.5	627.6
10°	625.7	624.2	617.4	619.0	617.4
12.5°	617.4	615.5	605.8	606.8	604.5
15°	606.4	603.5	593.3	592.8	588.5
17.5°	594.8	590.5	578.3	576.0	572.6
20°	580.7	576.0	560.5	558.1	553.8
22.5°	565.4	560.5	544.2	538.9	535.4
25°	549.9	542.6	524.8	518.6	513.3
27.5°	532.6	523.8	505.0	496.9	491.6
30°	513.3	504.1	483.8	472.8	468.4
32.5°	494.4	483.4	462.6	450.1	444.4
35°	473.7	462.2	440.4	426.5	419.7
37.5°	453.9	439.9	417.7	401.4	394.5
40°	432.7	418.2	395.1	376.7	371.0
42.5°	410.5	395.5	371.4	354.1	344.9
45°	387.8	373.9	347.3	328.0	320.8
47.5°	364.1	349.8	323.1	303.4	295.2
50°	342.0	326.1	298.6	278.4	271.1
52.5°	317.8	301.6	275.9	253.7	246.4
55°	294.3	278.8	251.9	230.2	222.5
57.5°	270.1	253.7	227.7	206.4	199.7
60°	247.0	230.2	204.0	182.8	175.6
62.5°	222.5	206.4	180.0	160.6	153.4
65°	199.3	182.8	157.3	137.9	130.6
67.5°	176.0	159.7	135.0	116.8	111.0
70°	152.5	136.0	111.9	96.9	91.2
72.5°	129.3	113.4	91.2	77.7	74.4
75°	106.1	91.6	71.4	60.8	57.4
77.5°	82.4	70.9	54.0	45.9	43.0
80°	62.7	51.2	37.7	33.3	32.4
82.5°	43.4	33.3	25.1	23.5	23.2
85°	26.5	17.8	15.5	14.9	14.5
87.5°	11.2	7.7	7.2	7.2	6.7
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)