

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: P888337

Luminaire Tested: **DPT5-4F021-85S35-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: P888337  
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: DPT5-4F021-85S35-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

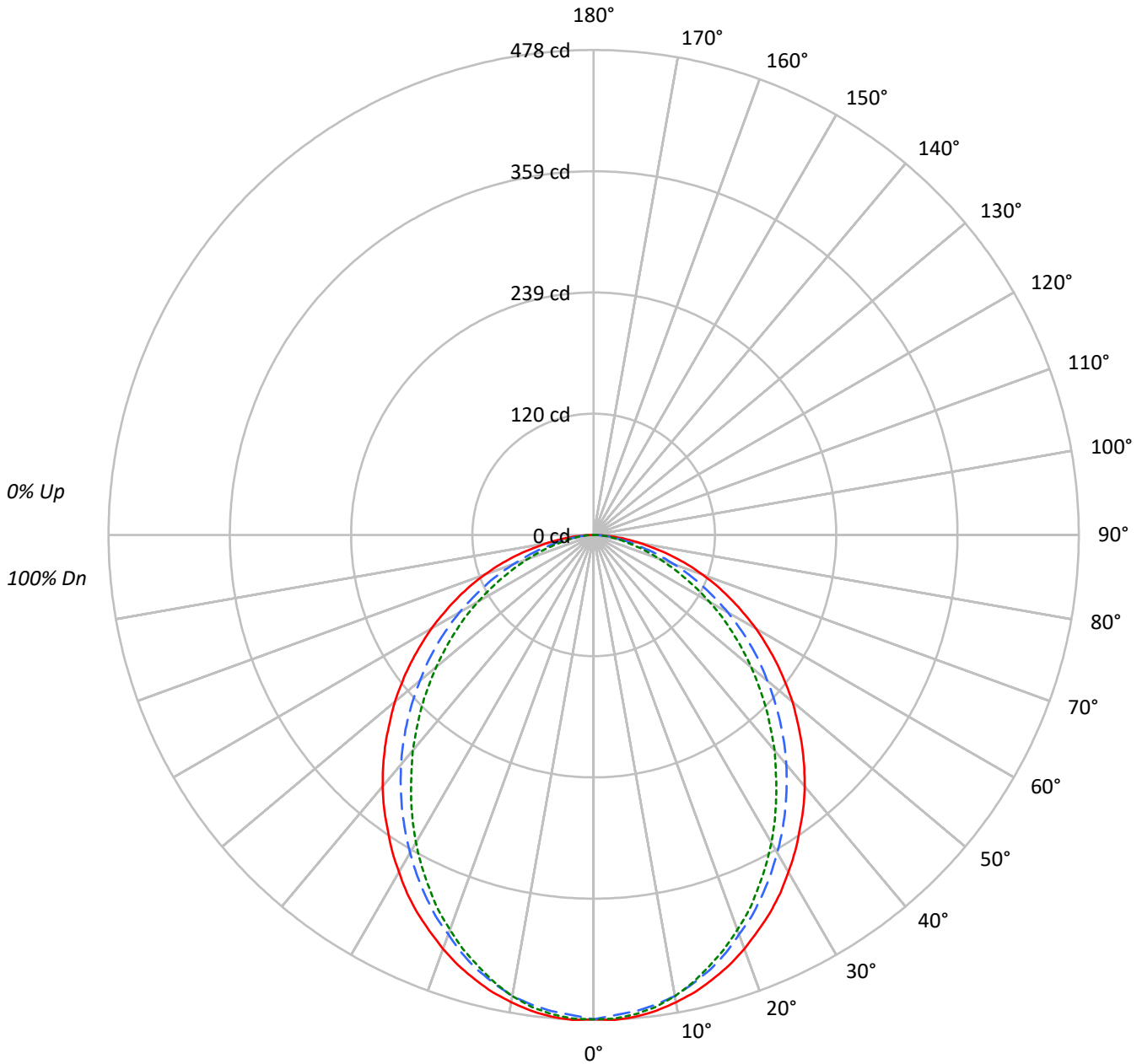
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1128.0 lumens  
Efficiency: N/A  
Efficacy: 98.9 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°	7990	7990	7990
5°	8007	7917	7964
10°	7947	7842	7842
15°	7853	7683	7621
20°	7730	7461	7372
25°	7589	7243	7085
30°	7414	6989	6767
35°	7234	6725	6408
40°	7067	6451	6057
45°	6861	6143	5675
50°	6657	5811	5277
55°	6418	5494	4852
60°	6178	5104	4391
65°	5900	4656	3868
70°	5578	4090	3337
75°	5127	3453	2774
80°	4520	2718	2332
85°	3802	2227	2074



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.9	4.0
10°-20°	125.6	11.1
20°-30°	182.1	16.1
30°-40°	207.4	18.4
40°-50°	202.2	17.9
50°-60°	170.1	15.1
60°-70°	119.2	10.6
70°-80°	61.1	5.4
80°-90°	15.3	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°	352.6	31.3
0°-40°	560.0	49.6
0°-60°	932.4	82.7
0°-90°	1128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1128.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	477	475	471	475	474	45
15°	453	451	444	443	440	128
25°	411	406	392	388	384	189
35°	354	346	329	319	314	222
45°	290	280	260	245	240	224
55°	220	208	188	172	166	197
65°	149	137	118	103	98	148
75°	79	68	53	46	43	84
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°	477.5	477.5	477.5	477.5	477.5
2.5°	478.5	477.5	473.8	477.5	477.1
5°	476.7	475.3	471.3	474.9	474.1
7.5°	473.1	471.6	467.0	469.8	469.2
10°	467.7	466.6	461.5	462.7	461.5
12.5°	461.5	460.1	452.8	453.6	451.8
15°	453.3	451.1	443.5	443.1	439.9
17.5°	444.6	441.4	432.3	430.6	428.0
20°	434.1	430.6	419.0	417.2	414.0
22.5°	422.6	419.0	406.8	402.8	400.2
25°	411.0	405.6	392.3	387.6	383.7
27.5°	398.1	391.6	377.5	371.4	367.5
30°	383.7	376.9	361.7	353.4	350.2
32.5°	369.6	361.3	345.8	336.5	332.2
35°	354.1	345.5	329.2	318.8	313.7
37.5°	339.3	328.8	312.2	300.1	294.9
40°	323.5	312.6	295.3	281.6	277.3
42.5°	306.8	295.7	277.6	264.7	257.8
45°	289.9	279.5	259.6	245.2	239.8
47.5°	272.2	261.5	241.5	226.8	220.7
50°	255.7	243.7	223.2	208.1	202.7
52.5°	237.6	225.4	206.2	189.6	184.2
55°	220.0	208.4	188.3	172.0	166.3
57.5°	201.9	189.6	170.2	154.3	149.3
60°	184.6	172.0	152.5	136.7	131.2
62.5°	166.3	154.3	134.5	120.1	114.6
65°	149.0	136.7	117.6	103.1	97.7
67.5°	131.6	119.4	100.9	87.3	83.0
70°	114.0	101.7	83.6	72.4	68.2
72.5°	96.7	84.7	68.2	58.1	55.6
75°	79.3	68.5	53.4	45.5	42.9
77.5°	61.6	53.0	40.3	34.3	32.1
80°	46.9	38.3	28.2	24.9	24.2
82.5°	32.4	24.9	18.8	17.6	17.3
85°	19.8	13.3	11.6	11.2	10.8
87.5°	8.4	5.8	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)