

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: P888051

Luminaire Tested: **DPT5-4F021-61S35-A-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: P888051  
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: DPT5-4F021-61S35-A-XX-UDD  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

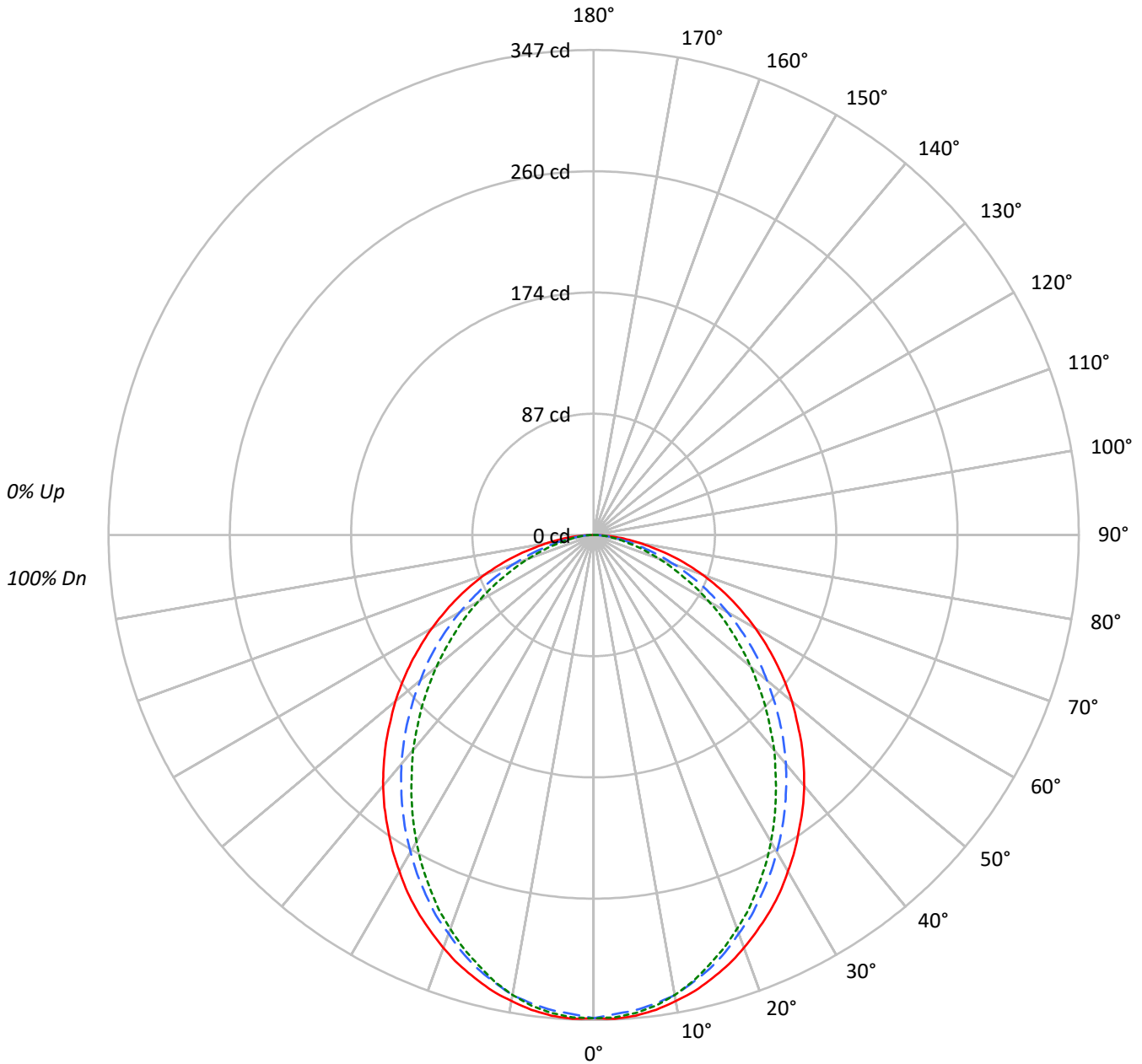
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 817.0 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 8.2  
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°	5787	5787	5787
5°	5800	5735	5768
10°	5755	5680	5680
15°	5687	5564	5519
20°	5599	5405	5339
25°	5497	5246	5131
30°	5370	5062	4900
35°	5240	4872	4641
40°	5118	4673	4389
45°	4970	4449	4111
50°	4821	4210	3822
55°	4647	3979	3513
60°	4475	3698	3183
65°	4272	3374	2799
70°	4041	2965	2417
75°	3718	2502	2011
80°	3276	1966	1686
85°	2746	1613	1498



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.5	4.0
10°-20°	90.9	11.1
20°-30°	131.9	16.1
30°-40°	150.3	18.4
40°-50°	146.4	17.9
50°-60°	123.2	15.1
60°-70°	86.4	10.6
70°-80°	44.3	5.4
80°-90°	11.0	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°	255.4	31.3
0°-40°	405.6	49.6
0°-60°	675.3	82.7
0°-90°	817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	817.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	346	346	346	346	346	
5°	345	344	341	344	343	33
15°	328	327	321	321	319	93
25°	298	294	284	281	278	137
35°	256	250	238	231	227	161
45°	210	202	188	178	174	162
55°	159	151	136	125	120	142
65°	108	99	85	75	71	107
75°	58	50	39	33	31	61
85°	14	10	8	8	8	17
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	345.8	345.8	345.8	345.8	345.8
2.5°	346.6	345.8	343.2	345.8	345.5
5°	345.3	344.3	341.4	343.9	343.4
7.5°	342.7	341.6	338.2	340.3	339.8
10°	338.7	338.0	334.3	335.1	334.3
12.5°	334.3	333.2	328.0	328.5	327.3
15°	328.3	326.7	321.2	321.0	318.6
17.5°	322.0	319.7	313.1	311.9	310.0
20°	314.4	311.9	303.5	302.2	299.8
22.5°	306.1	303.5	294.7	291.8	289.9
25°	297.7	293.8	284.1	280.8	277.9
27.5°	288.4	283.6	273.4	269.0	266.2
30°	277.9	273.0	262.0	256.0	253.6
32.5°	267.7	261.7	250.5	243.7	240.6
35°	256.5	250.2	238.5	230.9	227.2
37.5°	245.8	238.2	226.2	217.3	213.6
40°	234.3	226.4	213.9	204.0	200.9
42.5°	222.2	214.1	201.1	191.7	186.7
45°	210.0	202.5	188.0	177.6	173.7
47.5°	197.1	189.4	174.9	164.3	159.8
50°	185.2	176.5	161.7	150.7	146.8
52.5°	172.1	163.3	149.4	137.3	133.4
55°	159.3	151.0	136.4	124.6	120.4
57.5°	146.3	137.3	123.3	111.8	108.1
60°	133.7	124.6	110.5	99.0	95.1
62.5°	120.4	111.8	97.4	87.0	83.0
65°	107.9	99.0	85.2	74.7	70.7
67.5°	95.3	86.5	73.1	63.2	60.1
70°	82.6	73.6	60.6	52.5	49.4
72.5°	70.0	61.4	49.4	42.1	40.3
75°	57.5	49.6	38.7	32.9	31.1
77.5°	44.6	38.4	29.2	24.9	23.3
80°	34.0	27.7	20.4	18.0	17.5
82.5°	23.5	18.0	13.6	12.7	12.5
85°	14.3	9.6	8.4	8.1	7.8
87.5°	6.1	4.2	3.9	3.9	3.6
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)