

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: P888291

Luminaire Tested: **DPT5-4F021-109S27-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: P888291
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: DPT5-4F021-109S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

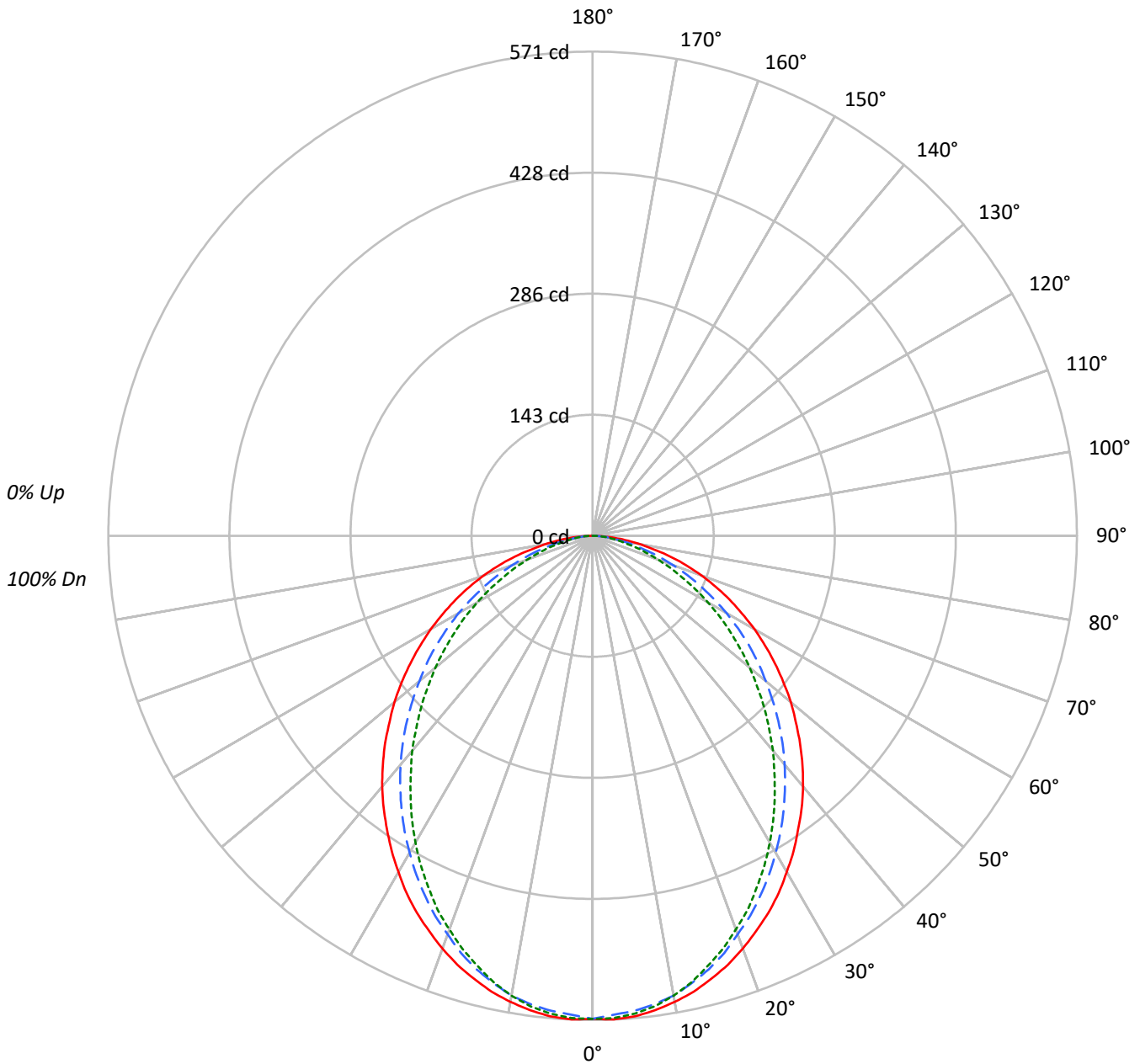
Lumens per Lamp: N/A
Luminaire Lumens: 1346.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	9533	9533	9533
5°	9556	9447	9502
10°	9483	9357	9357
15°	9371	9168	9095
20°	9224	8904	8797
25°	9056	8643	8453
30°	8846	8340	8073
35°	8633	8026	7646
40°	8432	7698	7228
45°	8186	7331	6771
50°	7943	6933	6295
55°	7658	6555	5788
60°	7373	6091	5241
65°	7040	5555	4613
70°	6654	4883	3978
75°	6123	4118	3310
80°	5396	3238	2785
85°	4531	2650	2477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	4.0
10°-20°	149.8	11.1
20°-30°	217.3	16.1
30°-40°	247.5	18.4
40°-50°	241.3	17.9
50°-60°	203.1	15.1
60°-70°	142.3	10.6
70°-80°	72.9	5.4
80°-90°	18.2	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°	420.7	31.3
0°-40°	668.3	49.6
0°-60°	1112.6	82.7
0°-90°	1346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1346.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	569	567	562	567	566	54
15°	541	538	529	529	525	153
25°	490	484	468	462	458	226
35°	423	412	393	380	374	265
45°	346	334	310	293	286	267
55°	262	249	225	205	198	235
65°	178	163	140	123	116	176
75°	95	82	64	54	51	100
85°	24	16	14	13	13	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	569.7	569.7	569.7	569.7	569.7
2.5°	571.0	569.7	565.4	569.7	569.3
5°	568.9	567.2	562.4	566.6	565.7
7.5°	564.5	562.8	557.2	560.6	559.8
10°	558.1	556.8	550.7	552.1	550.7
12.5°	550.7	549.0	540.4	541.2	539.2
15°	540.9	538.3	529.2	528.8	525.0
17.5°	530.5	526.7	515.9	513.8	510.7
20°	518.0	513.8	500.0	497.8	494.0
22.5°	504.3	500.0	485.4	480.7	477.5
25°	490.5	484.0	468.1	462.5	457.8
27.5°	475.1	467.2	450.5	443.2	438.5
30°	457.8	449.7	431.6	421.8	417.8
32.5°	441.0	431.2	412.7	401.5	396.4
35°	422.6	412.3	392.9	380.4	374.3
37.5°	404.9	392.4	372.6	358.1	351.9
40°	386.0	373.1	352.4	336.0	330.9
42.5°	366.1	352.8	331.2	315.8	307.6
45°	345.9	333.6	309.8	292.6	286.1
47.5°	324.8	312.0	288.2	270.7	263.3
50°	305.1	290.9	266.3	248.3	241.8
52.5°	283.5	269.0	246.1	226.3	219.8
55°	262.5	248.7	224.7	205.3	198.4
57.5°	241.0	226.3	203.1	184.1	178.2
60°	220.3	205.3	182.0	163.1	156.6
62.5°	198.4	184.1	160.5	143.3	136.8
65°	177.8	163.1	140.3	123.0	116.5
67.5°	157.0	142.5	120.4	104.2	99.1
70°	136.0	121.3	99.8	86.4	81.3
72.5°	115.3	101.1	81.3	69.3	66.3
75°	94.7	81.7	63.7	54.3	51.2
77.5°	73.5	63.2	48.1	40.9	38.3
80°	56.0	45.7	33.6	29.7	28.9
82.5°	38.7	29.7	22.4	21.0	20.7
85°	23.6	15.9	13.8	13.3	12.9
87.5°	10.0	6.9	6.5	6.5	6.0
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)