

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: P888293

Luminaire Tested: **DPT5-4F021-109S35-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: P888293
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: DPT5-4F021-109S35-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

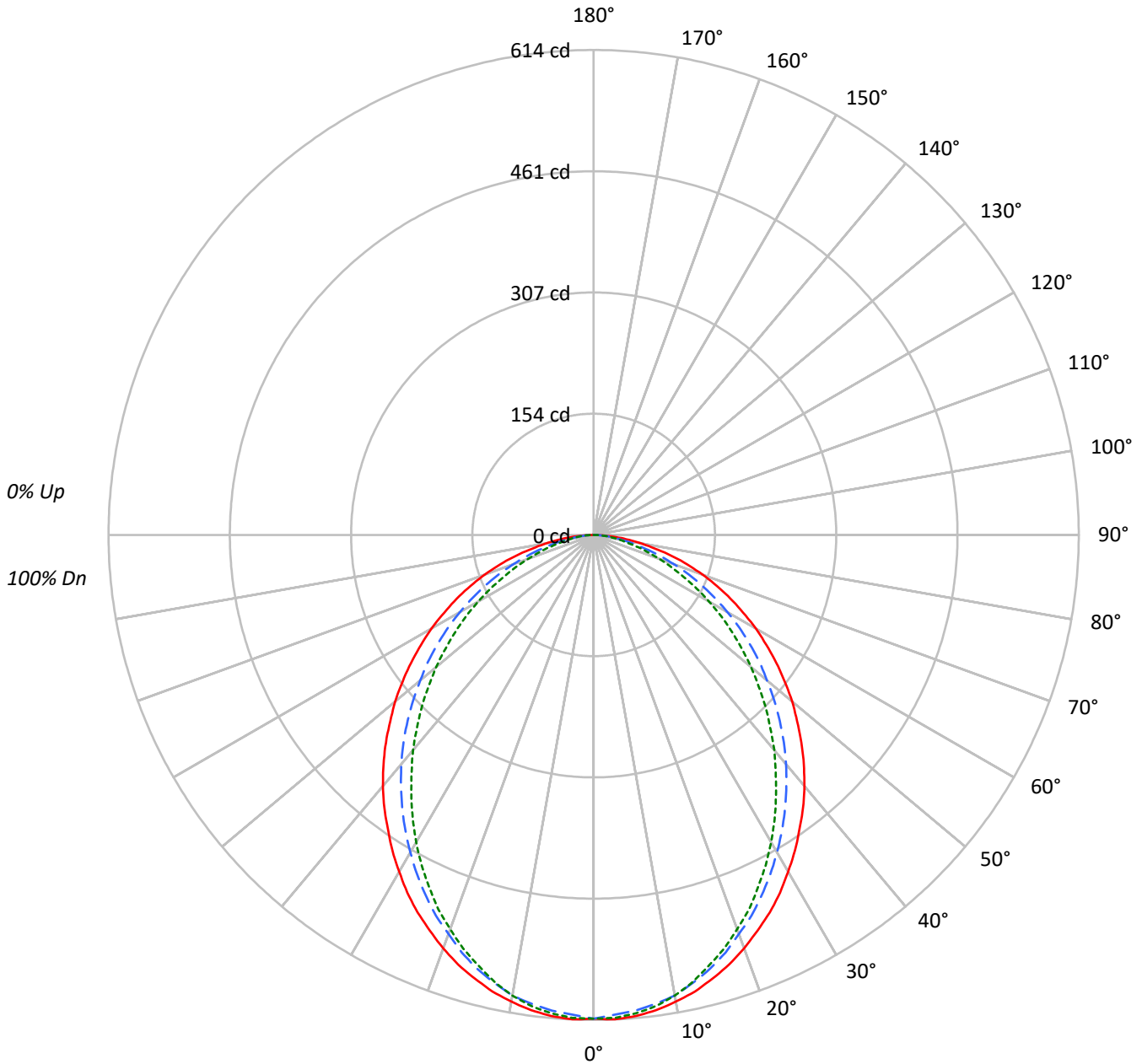
Lumens per Lamp: N/A
Luminaire Lumens: 1447.0 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

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°	10249	10249	10249
5°	10272	10156	10216
10°	10195	10061	10061
15°	10074	9856	9776
20°	9917	9572	9458
25°	9736	9293	9088
30°	9511	8966	8680
35°	9281	8627	8220
40°	9065	8275	7772
45°	8801	7880	7279
50°	8539	7453	6769
55°	8233	7046	6223
60°	7925	6546	5636
65°	7567	5971	4961
70°	7153	5250	4276
75°	6582	4429	3562
80°	5801	3479	2997
85°	4877	2842	2669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	4.0
10°-20°	161.1	11.1
20°-30°	233.6	16.1
30°-40°	266.1	18.4
40°-50°	259.4	17.9
50°-60°	218.3	15.1
60°-70°	153.0	10.6
70°-80°	78.4	5.4
80°-90°	19.6	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°	452.3	31.3
0°-40°	718.4	49.6
0°-60°	1196.1	82.7
0°-90°	1447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1447.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	612	610	605	609	608	58
15°	582	579	569	568	564	164
25°	527	520	503	497	492	243
35°	454	443	422	409	402	284
45°	372	359	333	315	308	287
55°	282	267	242	221	213	252
65°	191	175	151	132	125	189
75°	102	88	68	58	55	108
85°	25	17	15	14	14	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	612.5	612.5	612.5	612.5	612.5
2.5°	613.9	612.5	607.9	612.5	612.0
5°	611.5	609.7	604.6	609.1	608.2
7.5°	606.9	605.0	599.0	602.7	601.8
10°	600.0	598.6	592.1	593.5	592.1
12.5°	592.1	590.2	580.9	581.9	579.6
15°	581.5	578.7	568.9	568.5	564.3
17.5°	570.4	566.2	554.6	552.3	549.1
20°	556.9	552.3	537.5	535.2	531.1
22.5°	542.1	537.5	521.9	516.7	513.4
25°	527.3	520.3	503.3	497.2	492.2
27.5°	510.7	502.3	484.3	476.5	471.4
30°	492.2	483.4	464.0	453.4	449.2
32.5°	474.1	463.5	443.6	431.6	426.1
35°	454.3	443.2	422.3	409.0	402.4
37.5°	435.3	421.8	400.5	384.9	378.3
40°	415.0	401.1	378.8	361.2	355.8
42.5°	393.6	379.3	356.1	339.5	330.7
45°	371.9	358.6	333.0	314.6	307.6
47.5°	349.1	335.4	309.8	291.0	283.1
50°	328.0	312.7	286.3	266.9	260.0
52.5°	304.8	289.2	264.5	243.3	236.3
55°	282.2	267.4	241.5	220.7	213.3
57.5°	259.0	243.3	218.4	198.0	191.5
60°	236.8	220.7	195.6	175.3	168.4
62.5°	213.3	198.0	172.6	154.0	147.1
65°	191.1	175.3	150.8	132.2	125.3
67.5°	168.8	153.2	129.5	112.0	106.5
70°	146.2	130.4	107.3	92.9	87.4
72.5°	124.0	108.7	87.4	74.5	71.3
75°	101.8	87.9	68.5	58.3	55.1
77.5°	79.0	68.0	51.7	44.0	41.2
80°	60.2	49.1	36.1	31.9	31.1
82.5°	41.6	31.9	24.1	22.6	22.2
85°	25.4	17.1	14.8	14.3	13.9
87.5°	10.7	7.4	7.0	7.0	6.4
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)