

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: P888035

Luminaire Tested: **DPT5-4F021-127V60-A-XX-UDD_4500K**

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: P888035
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-A-XX-UDD_4500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

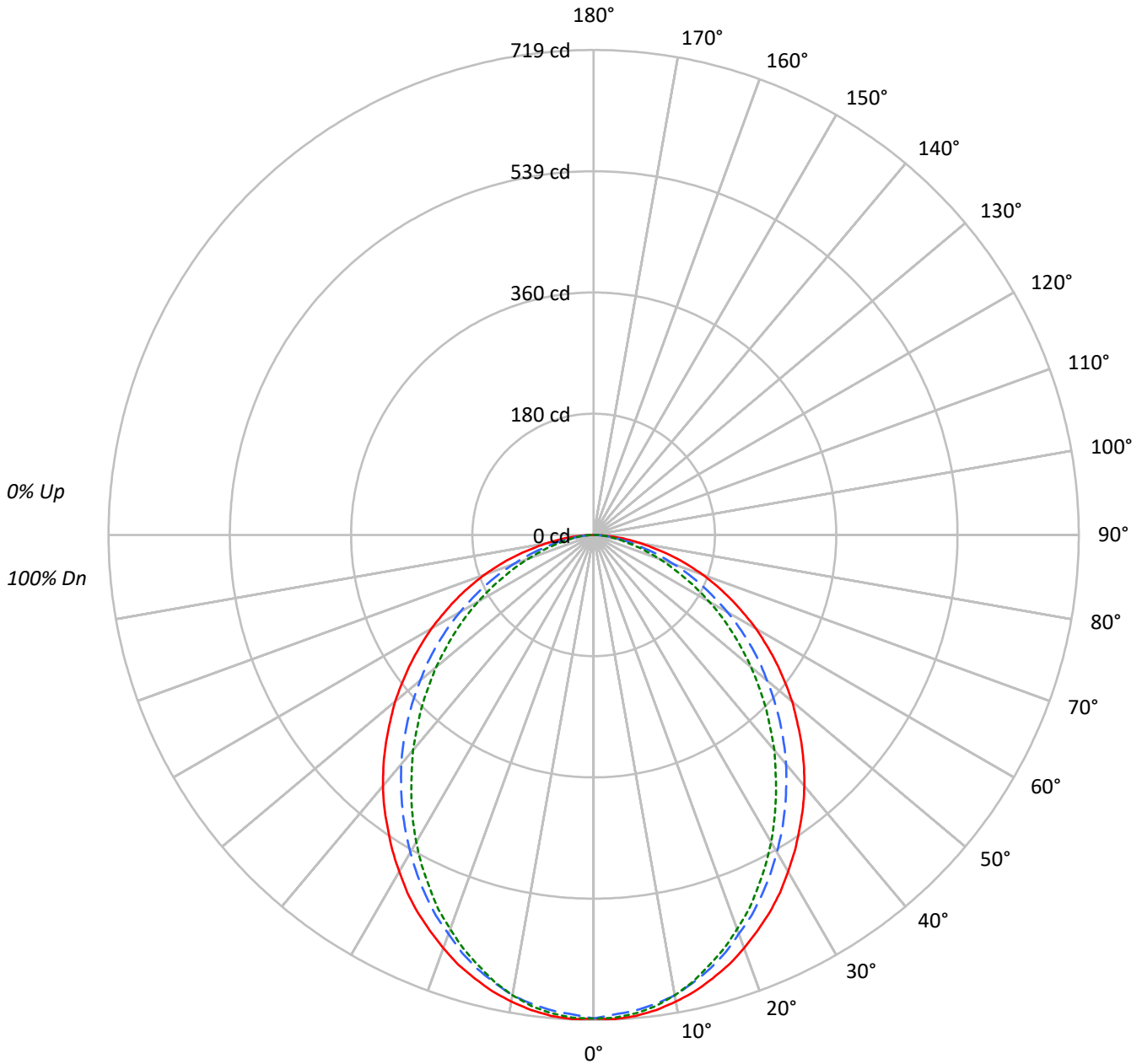
Lumens per Lamp: N/A
Luminaire Lumens: 1694.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 17
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°	11998	11998	11998
5°	12025	11889	11960
10°	11935	11777	11777
15°	11794	11538	11446
20°	11609	11205	11071
25°	11398	10879	10639
30°	11134	10496	10162
35°	10864	10100	9624
40°	10612	9688	9098
45°	10304	9227	8522
50°	9994	8726	7924
55°	9639	8251	7285
60°	9281	7664	6596
65°	8857	6993	5809
70°	8376	6145	5010
75°	7700	5185	4170
80°	6784	4076	3508
85°	5702	3341	3130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.5	4.0
10°-20°	188.6	11.1
20°-30°	273.4	16.1
30°-40°	311.5	18.4
40°-50°	303.6	17.9
50°-60°	255.5	15.1
60°-70°	179.1	10.6
70°-80°	91.8	5.4
80°-90°	22.9	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°	529.5	31.3
0°-40°	841.0	49.6
0°-60°	1400.2	82.7
0°-90°	1694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1694.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	717	717	717	717	717	
5°	716	714	708	713	712	68
15°	681	678	666	666	661	192
25°	617	609	589	582	576	284
35°	532	519	494	479	471	333
45°	435	420	390	368	360	336
55°	330	313	283	258	250	295
65°	224	205	177	155	147	221
75°	119	103	80	68	64	126
85°	30	20	17	17	16	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	717.0	717.0	717.0	717.0	717.0
2.5°	718.6	717.0	711.6	717.0	716.4
5°	715.9	713.8	707.8	713.1	712.0
7.5°	710.5	708.3	701.3	705.6	704.6
10°	702.4	700.8	693.1	694.8	693.1
12.5°	693.1	690.9	680.1	681.2	678.6
15°	680.8	677.5	666.0	665.5	660.7
17.5°	667.7	662.9	649.2	646.6	642.8
20°	651.9	646.6	629.2	626.5	621.7
22.5°	634.7	629.2	611.0	604.9	601.0
25°	617.3	609.1	589.2	582.1	576.2
27.5°	597.9	588.1	567.0	557.8	551.9
30°	576.2	566.0	543.2	530.8	525.9
32.5°	555.0	542.6	519.3	505.3	498.9
35°	531.8	518.8	494.4	478.8	471.1
37.5°	509.6	493.8	468.9	450.6	442.9
40°	485.8	469.5	443.5	422.9	416.5
42.5°	460.8	444.0	416.9	397.5	387.1
45°	435.4	419.8	389.9	368.3	360.1
47.5°	408.7	392.7	362.7	340.6	331.4
50°	383.9	366.1	335.2	312.5	304.4
52.5°	356.8	338.5	309.7	284.8	276.6
55°	330.4	313.0	282.8	258.4	249.7
57.5°	303.3	284.8	255.7	231.7	224.2
60°	277.3	258.4	229.0	205.2	197.1
62.5°	249.7	231.7	202.0	180.3	172.2
65°	223.7	205.2	176.6	154.8	146.7
67.5°	197.6	179.3	151.6	131.1	124.7
70°	171.2	152.7	125.6	108.8	102.4
72.5°	145.2	127.3	102.4	87.2	83.5
75°	119.1	102.9	80.2	68.3	64.5
77.5°	92.5	79.6	60.6	51.5	48.2
80°	70.4	57.5	42.3	37.4	36.4
82.5°	48.7	37.4	28.2	26.4	26.0
85°	29.7	20.0	17.4	16.8	16.3
87.5°	12.6	8.6	8.1	8.1	7.5
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)