

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: P888331

Luminaire Tested: **DPT5-4F021-61V60-F-XX-UDD_4000K**

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: P888331
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: DPT5-4F021-61V60-F-XX-UDD_4000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

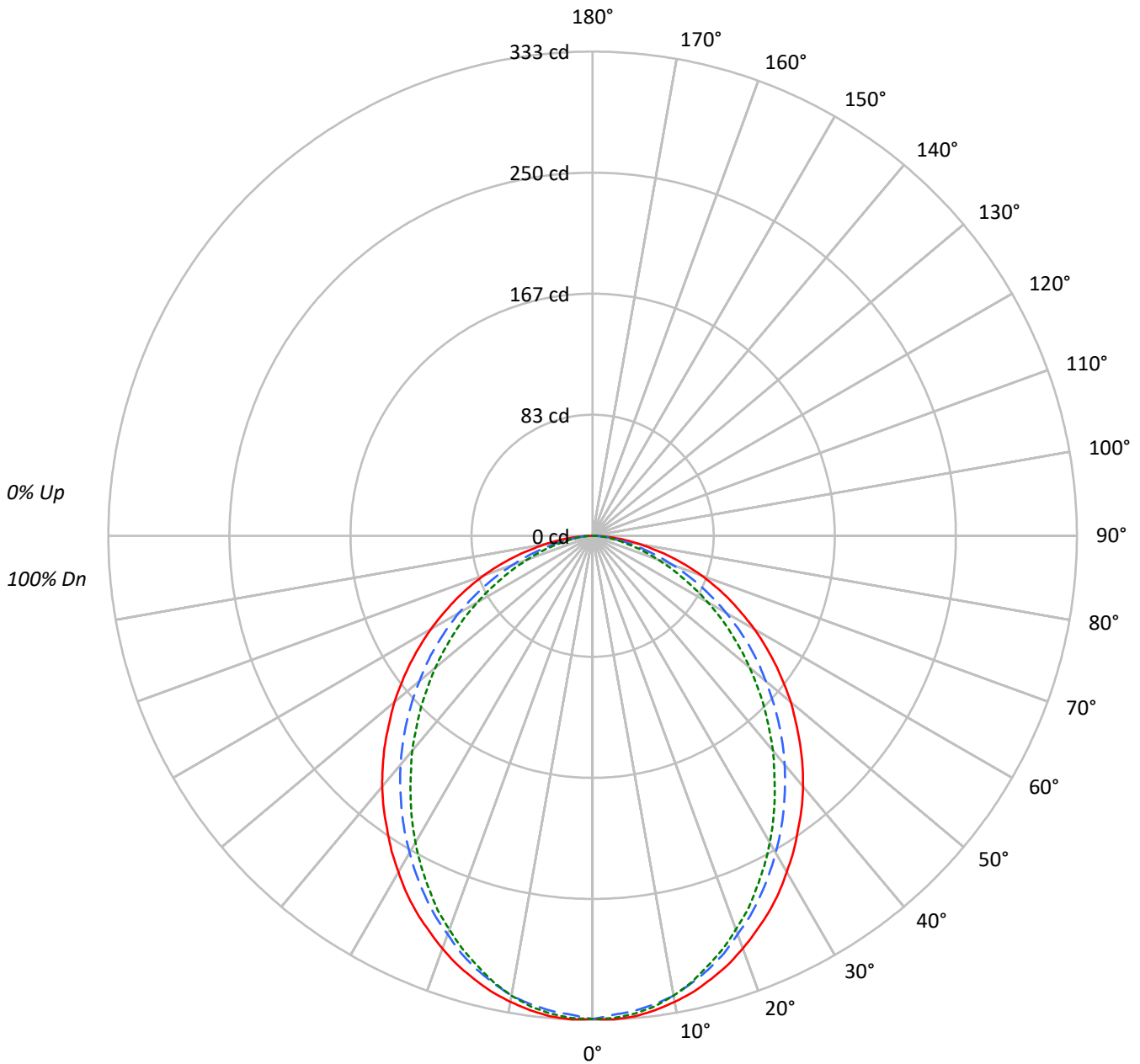
Lumens per Lamp: N/A
Luminaire Lumens: 785.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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°	5561	5561	5561
5°	5573	5510	5542
10°	5531	5458	5458
15°	5466	5346	5305
20°	5380	5193	5130
25°	5282	5041	4930
30°	5159	4863	4709
35°	5033	4680	4459
40°	4917	4489	4216
45°	4773	4276	3950
50°	4631	4043	3671
55°	4467	3822	3375
60°	4301	3551	3056
65°	4106	3239	2692
70°	3880	2848	2319
75°	3569	2399	1933
80°	3142	1889	1629
85°	2650	1555	1440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.3	4.0
10°-20°	87.4	11.1
20°-30°	126.7	16.1
30°-40°	144.4	18.4
40°-50°	140.7	17.9
50°-60°	118.4	15.1
60°-70°	83.0	10.6
70°-80°	42.6	5.4
80°-90°	10.6	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°	245.4	31.3
0°-40°	389.7	49.6
0°-60°	648.9	82.7
0°-90°	785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	332	332	332	332	332	
5°	332	331	328	330	330	31
15°	316	314	309	308	306	89
25°	286	282	273	270	267	132
35°	246	240	229	222	218	154
45°	202	194	181	171	167	156
55°	153	145	131	120	116	137
65°	104	95	82	72	68	103
75°	55	48	37	32	30	58
85°	14	9	8	8	8	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	332.3	332.3	332.3	332.3	332.3
2.5°	333.0	332.3	329.8	332.3	332.0
5°	331.8	330.8	328.0	330.5	329.9
7.5°	329.2	328.2	325.0	327.0	326.5
10°	325.5	324.7	321.2	322.0	321.2
12.5°	321.2	320.2	315.1	315.7	314.4
15°	315.5	313.9	308.6	308.4	306.2
17.5°	309.4	307.2	300.9	299.6	297.9
20°	302.1	299.6	291.6	290.3	288.1
22.5°	294.1	291.6	283.1	280.3	278.5
25°	286.1	282.3	273.0	269.8	267.0
27.5°	277.1	272.5	262.7	258.5	255.7
30°	267.0	262.3	251.7	246.0	243.7
32.5°	257.2	251.5	240.7	234.1	231.2
35°	246.4	240.4	229.1	221.9	218.3
37.5°	236.1	228.8	217.3	208.8	205.2
40°	225.1	217.6	205.5	196.0	193.0
42.5°	213.5	205.8	193.2	184.2	179.4
45°	201.7	194.5	180.7	170.7	166.9
47.5°	189.4	182.0	168.1	157.9	153.6
50°	177.9	169.6	155.3	144.8	141.0
52.5°	165.3	156.9	143.5	132.0	128.2
55°	153.1	145.1	131.0	119.7	115.7
57.5°	140.5	132.0	118.5	107.4	103.9
60°	128.5	119.7	106.1	95.1	91.3
62.5°	115.7	107.4	93.6	83.6	79.8
65°	103.7	95.1	81.8	71.7	68.0
67.5°	91.6	83.1	70.2	60.7	57.8
70°	79.3	70.8	58.2	50.4	47.4
72.5°	67.3	59.0	47.4	40.4	38.7
75°	55.2	47.7	37.1	31.7	29.9
77.5°	42.9	36.9	28.1	23.9	22.3
80°	32.6	26.6	19.6	17.3	16.9
82.5°	22.6	17.3	13.1	12.2	12.1
85°	13.8	9.3	8.1	7.8	7.5
87.5°	5.8	4.0	3.8	3.8	3.5
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)