

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: P888053

Luminaire Tested: **DPT5-4F021-61V60-A-XX-UDD_2700K**

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: P888053
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-A-XX-UDD_2700K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

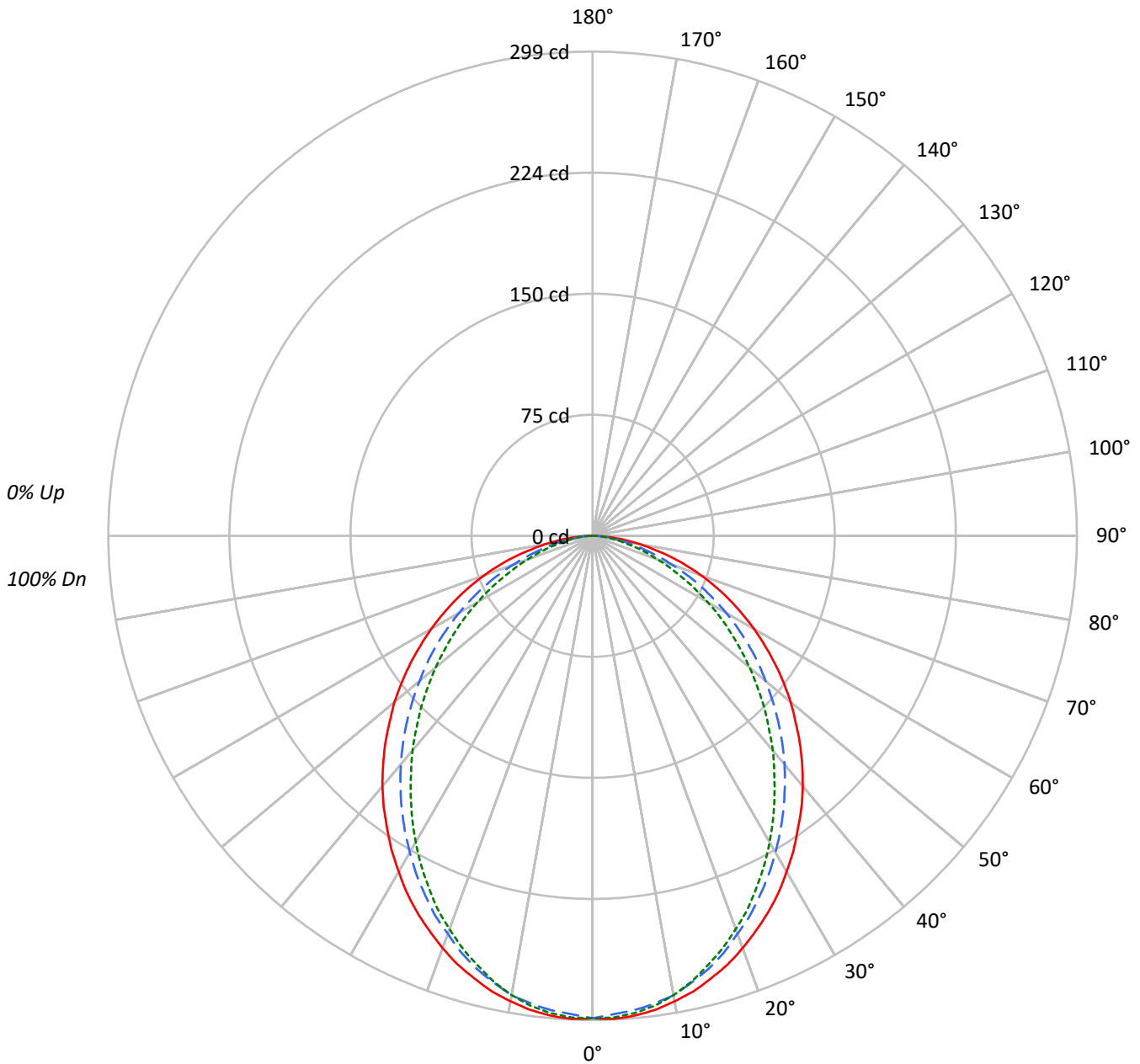
Lumens per Lamp: N/A
Luminaire Lumens: 704.0 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
Input Voltage (V): NR
Input Current (A_{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°	4987	4987	4987
5°	4997	4940	4970
10°	4960	4895	4895
15°	4901	4795	4757
20°	4824	4657	4602
25°	4736	4520	4422
30°	4628	4361	4222
35°	4515	4198	4000
40°	4410	4026	3781
45°	4281	3834	3543
50°	4155	3626	3293
55°	4006	3428	3028
60°	3855	3186	2741
65°	3682	2906	2415
70°	3479	2554	2079
75°	3200	2153	1733
80°	2824	1696	1455
85°	2381	1382	1306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	4.0
10°-20°	78.4	11.1
20°-30°	113.6	16.1
30°-40°	129.5	18.4
40°-50°	126.2	17.9
50°-60°	106.2	15.1
60°-70°	74.4	10.6
70°-80°	38.1	5.4
80°-90°	9.5	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°	220.1	31.3
0°-40°	349.5	49.6
0°-60°	581.9	82.7
0°-90°	704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	298	298	298	298	298	
5°	298	297	294	296	296	28
15°	283	282	277	277	275	80
25°	256	253	245	242	240	118
35°	221	216	206	199	196	138
45°	181	174	162	153	150	140
55°	137	130	118	107	104	123
65°	93	85	73	64	61	92
75°	50	43	33	28	27	52
85°	12	8	7	7	7	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	298.0	298.0	298.0	298.0	298.0
2.5°	298.7	298.0	295.7	298.0	297.7
5°	297.5	296.7	294.1	296.4	295.9
7.5°	295.3	294.4	291.4	293.2	292.8
10°	291.9	291.2	288.1	288.8	288.1
12.5°	288.1	287.1	282.6	283.1	282.0
15°	282.9	281.5	276.8	276.6	274.6
17.5°	277.5	275.5	269.8	268.7	267.1
20°	270.9	268.7	261.5	260.4	258.4
22.5°	263.8	261.5	253.9	251.4	249.8
25°	256.5	253.2	244.8	241.9	239.5
27.5°	248.5	244.4	235.6	231.8	229.4
30°	239.5	235.2	225.7	220.6	218.5
32.5°	230.7	225.5	215.8	210.0	207.3
35°	221.0	215.6	205.5	199.0	195.8
37.5°	211.8	205.2	194.9	187.3	184.1
40°	201.9	195.1	184.3	175.8	173.1
42.5°	191.5	184.5	173.2	165.2	160.9
45°	180.9	174.5	162.0	153.0	149.7
47.5°	169.9	163.2	150.7	141.6	137.7
50°	159.6	152.1	139.3	129.9	126.5
52.5°	148.3	140.7	128.7	118.4	115.0
55°	137.3	130.1	117.5	107.4	103.8
57.5°	126.0	118.4	106.2	96.3	93.2
60°	115.2	107.4	95.2	85.3	81.9
62.5°	103.8	96.3	84.0	74.9	71.6
65°	93.0	85.3	73.4	64.3	61.0
67.5°	82.1	74.5	63.0	54.5	51.8
70°	71.1	63.5	52.2	45.2	42.5
72.5°	60.3	52.9	42.5	36.2	34.7
75°	49.5	42.7	33.3	28.4	26.8
77.5°	38.4	33.1	25.2	21.4	20.0
80°	29.3	23.9	17.6	15.5	15.1
82.5°	20.2	15.5	11.7	11.0	10.8
85°	12.4	8.3	7.2	7.0	6.8
87.5°	5.2	3.6	3.4	3.4	3.1
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)