

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: P888042

Luminaire Tested: **DPT5-4F021-37V60-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: P888042
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: DPT5-4F021-37V60-A-XX-UDD_2700K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

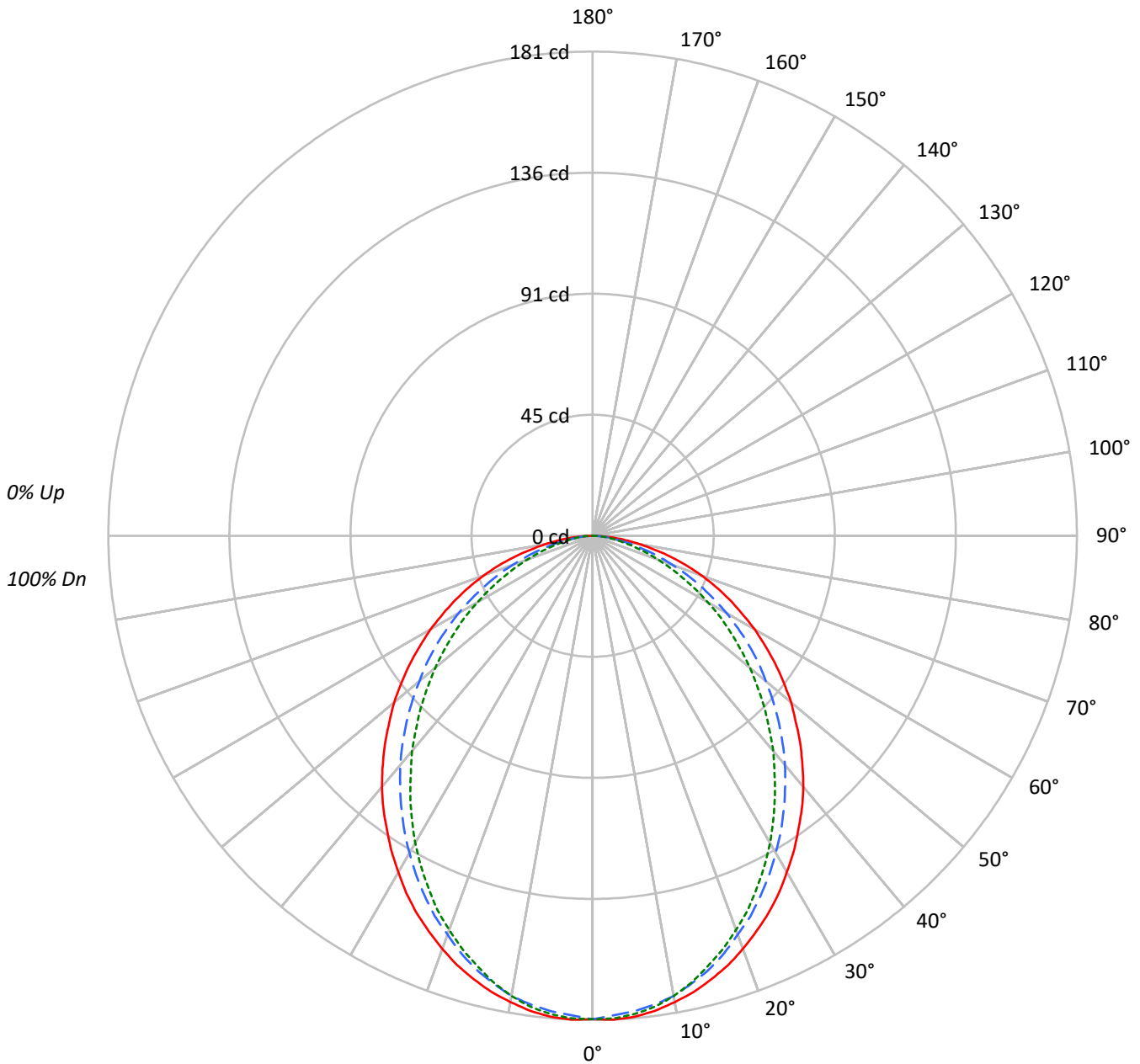
Lumens per Lamp: N/A
Luminaire Lumens: 427.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 5
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°	3024	3024	3024
5°	3032	2997	3015
10°	3008	2968	2968
15°	2973	2909	2884
20°	2926	2824	2790
25°	2873	2742	2681
30°	2806	2645	2562
35°	2737	2545	2427
40°	2676	2442	2294
45°	2596	2326	2149
50°	2520	2200	1997
55°	2430	2080	1835
60°	2339	1931	1663
65°	2233	1762	1465
70°	2109	1551	1262
75°	1940	1306	1054
80°	1706	1031	887
85°	1440	845	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.0	4.0
10°-20°	47.5	11.1
20°-30°	68.9	16.1
30°-40°	78.5	18.4
40°-50°	76.5	17.9
50°-60°	64.4	15.1
60°-70°	45.1	10.6
70°-80°	23.1	5.4
80°-90°	5.8	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°	133.5	31.3
0°-40°	212.0	49.6
0°-60°	352.9	82.7
0°-90°	427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	181	181	181	181	181	
5°	180	180	178	180	180	17
15°	172	171	168	168	166	48
25°	156	154	148	147	145	72
35°	134	131	125	121	119	84
45°	110	106	98	93	91	85
55°	83	79	71	65	63	74
65°	56	52	44	39	37	56
75°	30	26	20	17	16	32
85°	8	5	4	4	4	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	180.7	180.7	180.7	180.7	180.7
2.5°	181.1	180.7	179.4	180.7	180.6
5°	180.5	179.9	178.4	179.8	179.5
7.5°	179.1	178.5	176.8	177.9	177.6
10°	177.0	176.6	174.7	175.1	174.7
12.5°	174.7	174.2	171.4	171.7	171.0
15°	171.6	170.8	167.9	167.8	166.5
17.5°	168.3	167.1	163.6	163.0	162.0
20°	164.3	163.0	158.6	157.9	156.7
22.5°	160.0	158.6	154.0	152.5	151.5
25°	155.6	153.5	148.5	146.7	145.2
27.5°	150.7	148.2	142.9	140.6	139.1
30°	145.2	142.7	136.9	133.8	132.6
32.5°	139.9	136.8	130.9	127.4	125.7
35°	134.0	130.8	124.6	120.7	118.8
37.5°	128.5	124.5	118.2	113.6	111.6
40°	122.5	118.3	111.8	106.6	105.0
42.5°	116.1	111.9	105.1	100.2	97.6
45°	109.7	105.8	98.3	92.8	90.8
47.5°	103.0	99.0	91.4	85.9	83.5
50°	96.8	92.3	84.5	78.8	76.7
52.5°	89.9	85.3	78.1	71.8	69.7
55°	83.3	78.9	71.3	65.1	62.9
57.5°	76.4	71.8	64.4	58.4	56.5
60°	69.9	65.1	57.7	51.7	49.7
62.5°	62.9	58.4	50.9	45.5	43.4
65°	56.4	51.7	44.5	39.0	37.0
67.5°	49.8	45.2	38.2	33.0	31.4
70°	43.1	38.5	31.7	27.4	25.8
72.5°	36.6	32.1	25.8	22.0	21.0
75°	30.0	25.9	20.2	17.2	16.3
77.5°	23.3	20.1	15.3	13.0	12.2
80°	17.7	14.5	10.7	9.4	9.2
82.5°	12.3	9.4	7.1	6.7	6.6
85°	7.5	5.0	4.4	4.2	4.1
87.5°	3.2	2.2	2.1	2.1	1.9
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)