

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: P888043

Luminaire Tested: **DPT5-4F021-37V60-A-XX-UDD_3000K**

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: P888043
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_3000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

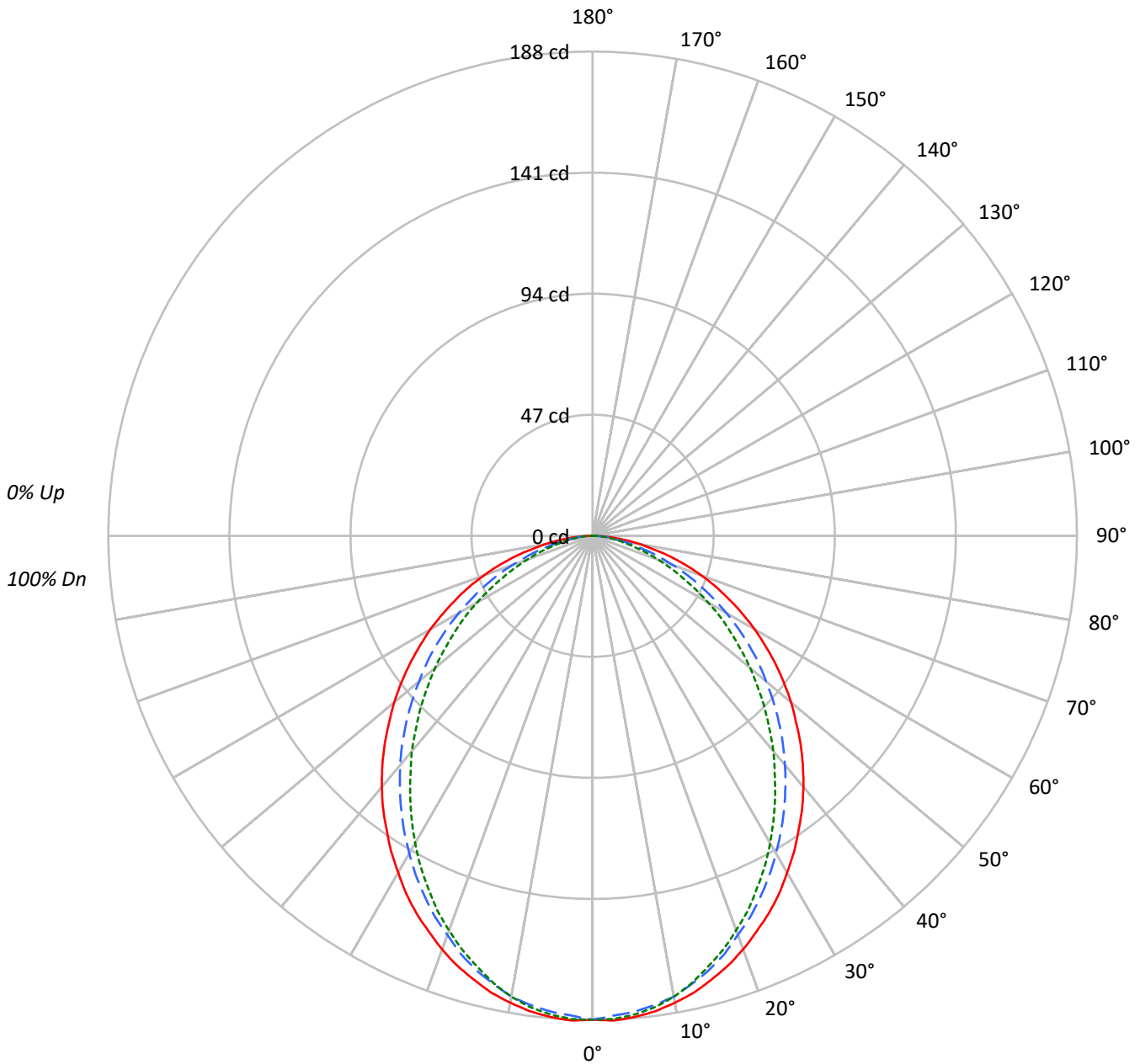
Lumens per Lamp: N/A
Luminaire Lumens: 444.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P888043

CATALOG NUMBER: DPT5-4F021-37V60-A-XX-UDD_3000K

Luminous Intensity Polar Plot





TEST NUMBER: P888043

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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°	3144	3144	3144
5°	3151	3116	3134
10°	3128	3087	3087
15°	3091	3025	3001
20°	3043	2936	2903
25°	2987	2851	2788
30°	2918	2752	2663
35°	2848	2647	2523
40°	2781	2538	2385
45°	2700	2419	2234
50°	2619	2288	2077
55°	2527	2162	1911
60°	2433	2008	1730
65°	2320	1833	1520
70°	2197	1610	1311
75°	2017	1358	1093
80°	1783	1070	915
85°	1498	883	826



TEST NUMBER: P888043

CATALOG NUMBER: DPT5-4F021-37V60-A-XX-UDD_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.7	4.0
10°-20°	49.4	11.1
20°-30°	71.7	16.1
30°-40°	81.6	18.4
40°-50°	79.6	17.9
50°-60°	67.0	15.1
60°-70°	46.9	10.6
70°-80°	24.1	5.4
80°-90°	6.0	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°	138.8	31.3
0°-40°	220.4	49.6
0°-60°	367.0	82.7
0°-90°	444.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	444.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	188	188	188	188	188	
5°	188	187	186	187	187	18
15°	178	178	175	174	173	50
25°	162	160	154	153	151	74
35°	139	136	130	126	124	87
45°	114	110	102	96	94	88
55°	87	82	74	68	66	77
65°	59	54	46	41	38	58
75°	31	27	21	18	17	33
85°	8	5	5	4	4	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	187.9	187.9	187.9	187.9	187.9
2.5°	188.4	187.9	186.5	187.9	187.8
5°	187.6	187.1	185.5	186.9	186.6
7.5°	186.2	185.6	183.8	184.9	184.7
10°	184.1	183.7	181.7	182.1	181.7
12.5°	181.7	181.1	178.2	178.5	177.9
15°	178.4	177.6	174.6	174.4	173.2
17.5°	175.0	173.7	170.2	169.5	168.5
20°	170.9	169.5	164.9	164.2	163.0
22.5°	166.3	164.9	160.1	158.6	157.5
25°	161.8	159.7	154.4	152.6	151.0
27.5°	156.7	154.1	148.6	146.2	144.7
30°	151.0	148.3	142.4	139.1	137.8
32.5°	145.5	142.2	136.1	132.4	130.7
35°	139.4	136.0	129.6	125.5	123.5
37.5°	133.6	129.4	122.9	118.1	116.1
40°	127.3	123.1	116.2	110.8	109.2
42.5°	120.8	116.4	109.3	104.2	101.5
45°	114.1	110.0	102.2	96.5	94.4
47.5°	107.1	102.9	95.1	89.3	86.9
50°	100.6	95.9	87.9	81.9	79.8
52.5°	93.5	88.7	81.2	74.6	72.5
55°	86.6	82.0	74.1	67.7	65.5
57.5°	79.5	74.6	67.0	60.7	58.8
60°	72.7	67.7	60.0	53.8	51.7
62.5°	65.5	60.7	52.9	47.3	45.1
65°	58.6	53.8	46.3	40.6	38.4
67.5°	51.8	47.0	39.7	34.4	32.7
70°	44.9	40.0	32.9	28.5	26.8
72.5°	38.0	33.4	26.8	22.9	21.9
75°	31.2	27.0	21.0	17.9	16.9
77.5°	24.2	20.9	15.9	13.5	12.6
80°	18.5	15.1	11.1	9.8	9.5
82.5°	12.8	9.8	7.4	6.9	6.8
85°	7.8	5.2	4.6	4.4	4.3
87.5°	3.3	2.3	2.1	2.1	2.0
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)