

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: P888045

Luminaire Tested: **DPT5-4F021-37V60-A-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: P888045
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_4000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

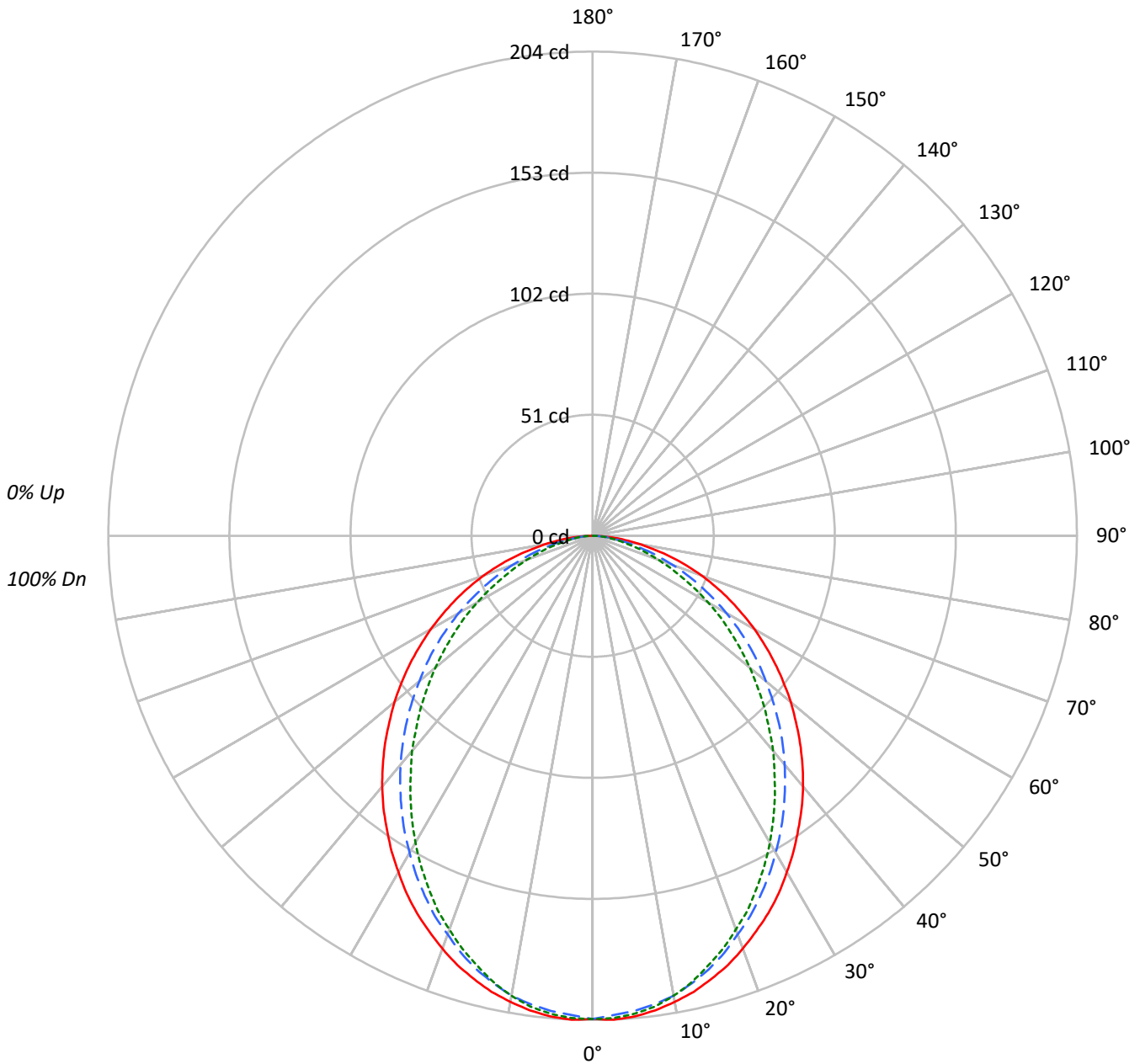
Lumens per Lamp: N/A
Luminaire Lumens: 481.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

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: P888045

CATALOG NUMBER: DPT5-4F021-37V60-A-XX-UDD_4000K

Luminous Intensity Polar Plot





TEST NUMBER: P888045

CATALOG NUMBER: DPT5-4F021-37V60-A-XX-UDD_4000K

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°	3407	3407	3407
5°	3415	3376	3396
10°	3388	3344	3344
15°	3349	3276	3250
20°	3296	3182	3143
25°	3237	3089	3021
30°	3161	2980	2885
35°	3085	2868	2733
40°	3012	2750	2584
45°	2925	2620	2421
50°	2838	2478	2249
55°	2737	2343	2068
60°	2634	2175	1874
65°	2514	1984	1647
70°	2378	1747	1424
75°	2185	1474	1183
80°	1927	1156	993
85°	1613	941	883



TEST NUMBER: P888045

CATALOG NUMBER: DPT5-4F021-37V60-A-XX-UDD_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.2	4.0
10°-20°	53.5	11.1
20°-30°	77.6	16.1
30°-40°	88.5	18.4
40°-50°	86.2	17.9
50°-60°	72.6	15.1
60°-70°	50.8	10.6
70°-80°	26.1	5.4
80°-90°	6.5	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°	150.4	31.3
0°-40°	238.8	49.6
0°-60°	397.6	82.7
0°-90°	481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	481.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	204	204	204	204	204	
5°	203	203	201	202	202	19
15°	193	192	189	189	188	54
25°	175	173	167	165	164	81
35°	151	147	140	136	134	95
45°	124	119	111	105	102	95
55°	94	89	80	73	71	84
65°	64	58	50	44	42	63
75°	34	29	23	19	18	36
85°	8	6	5	5	5	10
90°	0	0	0	0	0	



TEST NUMBER: P888045

CATALOG NUMBER: DPT5-4F021-37V60-A-XX-UDD_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	203.6	203.6	203.6	203.6	203.6
2.5°	204.1	203.6	202.1	203.6	203.4
5°	203.3	202.7	201.0	202.5	202.2
7.5°	201.7	201.1	199.1	200.3	200.1
10°	199.4	199.0	196.8	197.3	196.8
12.5°	196.8	196.2	193.1	193.4	192.7
15°	193.3	192.4	189.1	189.0	187.6
17.5°	189.6	188.2	184.3	183.6	182.5
20°	185.1	183.6	178.7	177.9	176.5
22.5°	180.2	178.7	173.5	171.8	170.7
25°	175.3	173.0	167.3	165.3	163.6
27.5°	169.8	167.0	161.0	158.4	156.7
30°	163.6	160.7	154.2	150.7	149.3
32.5°	157.6	154.1	147.5	143.5	141.6
35°	151.0	147.3	140.4	135.9	133.8
37.5°	144.7	140.2	133.1	128.0	125.8
40°	137.9	133.3	125.9	120.1	118.3
42.5°	130.8	126.1	118.4	112.9	109.9
45°	123.6	119.2	110.7	104.6	102.3
47.5°	116.1	111.5	103.0	96.7	94.1
50°	109.0	103.9	95.2	88.7	86.4
52.5°	101.3	96.1	87.9	80.9	78.6
55°	93.8	88.9	80.3	73.4	70.9
57.5°	86.1	80.9	72.6	65.8	63.7
60°	78.7	73.4	65.0	58.3	56.0
62.5°	70.9	65.8	57.4	51.2	48.9
65°	63.5	58.3	50.1	44.0	41.6
67.5°	56.1	50.9	43.0	37.2	35.4
70°	48.6	43.4	35.7	30.9	29.1
72.5°	41.2	36.1	29.1	24.8	23.7
75°	33.8	29.2	22.8	19.4	18.3
77.5°	26.3	22.6	17.2	14.6	13.7
80°	20.0	16.3	12.0	10.6	10.3
82.5°	13.8	10.6	8.0	7.5	7.4
85°	8.4	5.7	4.9	4.8	4.6
87.5°	3.6	2.5	2.3	2.3	2.1
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)