

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: P888100

Luminaire Tested: **DPT5-4F029-37V60-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: P888100
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: DPT5-4F029-37V60-A-XX-UDD_4000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

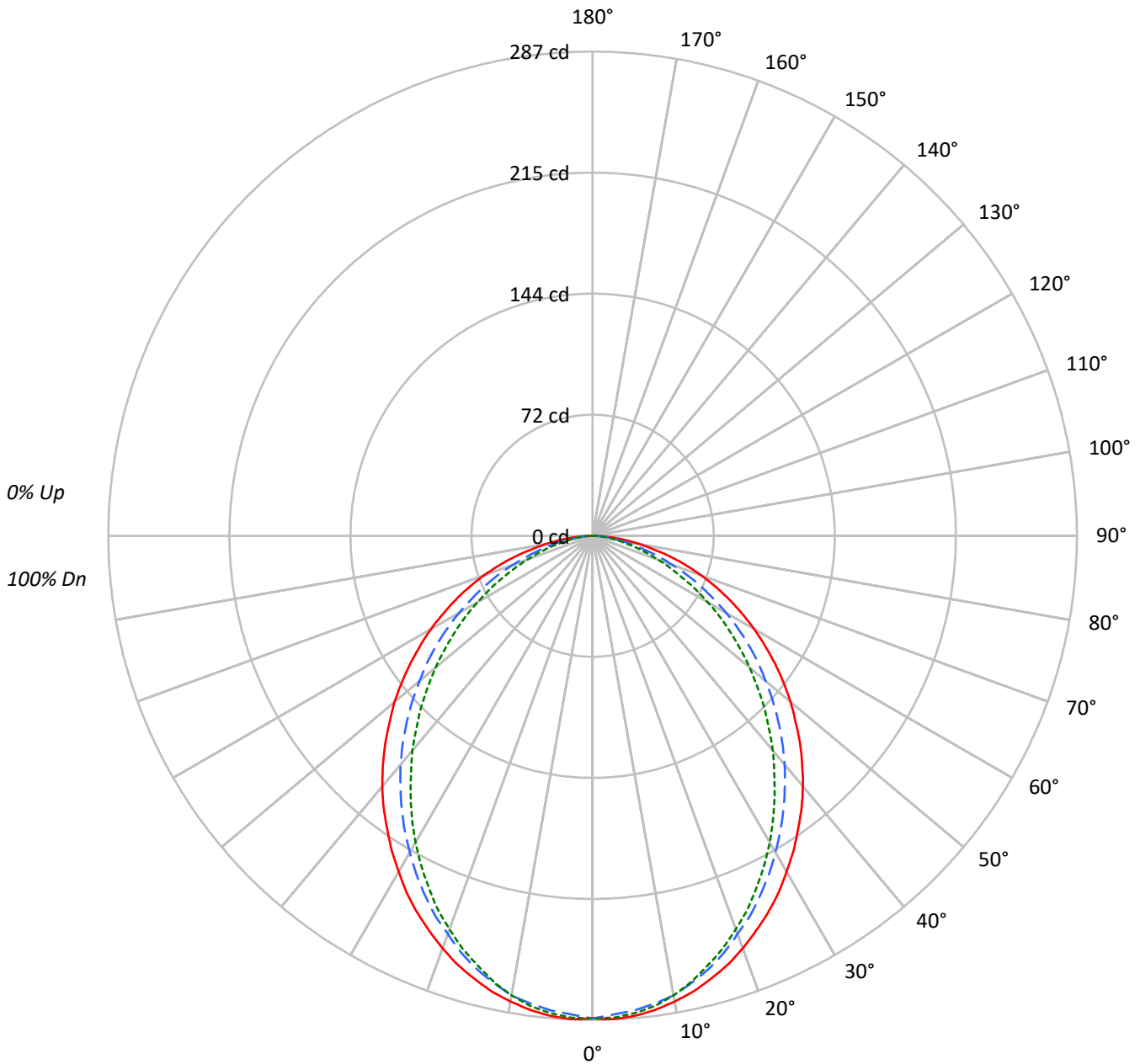
Lumens per Lamp: N/A
Luminaire Lumens: 676.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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: P888100

CATALOG NUMBER: DPT5-4F029-37V60-A-XX-UDD_4000K

Luminous Intensity Polar Plot





TEST NUMBER: P888100

CATALOG NUMBER: DPT5-4F029-37V60-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°	3416	3376	3396
10°	3390	3345	3345
15°	3350	3277	3250
20°	3298	3182	3144
25°	3237	3089	3021
30°	3162	2980	2887
35°	3085	2869	2733
40°	3015	2752	2584
45°	2926	2621	2420
50°	2838	2479	2251
55°	2737	2342	2070
60°	2634	2177	1872
65°	2517	1987	1649
70°	2378	1745	1421
75°	2186	1472	1183
80°	1927	1159	994
85°	1626	943	888



TEST NUMBER: P888100

CATALOG NUMBER: DPT5-4F029-37V60-A-XX-UDD_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.9	4.0
10°-20°	75.3	11.1
20°-30°	109.1	16.1
30°-40°	124.3	18.4
40°-50°	121.2	17.9
50°-60°	102.0	15.1
60°-70°	71.5	10.6
70°-80°	36.6	5.4
80°-90°	9.1	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°	211.3	31.3
0°-40°	335.6	49.6
0°-60°	558.8	82.7
0°-90°	676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	286	286	286	286	286	
5°	286	285	282	285	284	27
15°	272	270	266	266	264	77
25°	246	243	235	232	230	113
35°	212	207	197	191	188	133
45°	174	168	156	147	144	134
55°	132	125	113	103	100	118
65°	89	82	70	62	58	88
75°	48	41	32	27	26	50
85°	12	8	7	7	6	14
90°	0	0	0	0	0	



TEST NUMBER: P888100

CATALOG NUMBER: DPT5-4F029-37V60-A-XX-UDD_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	286.1	286.1	286.1	286.1	286.1
2.5°	286.8	286.1	284.0	286.1	285.9
5°	285.7	284.9	282.4	284.6	284.1
7.5°	283.5	282.6	279.8	281.6	281.2
10°	280.3	279.6	276.6	277.3	276.6
12.5°	276.6	275.7	271.4	271.8	270.8
15°	271.7	270.3	265.8	265.6	263.6
17.5°	266.5	264.5	259.1	258.0	256.5
20°	260.2	258.0	251.1	250.0	248.1
22.5°	253.3	251.1	243.8	241.4	239.8
25°	246.3	243.1	235.1	232.3	229.9
27.5°	238.6	234.7	226.2	222.6	220.2
30°	229.9	225.8	216.7	211.8	209.9
32.5°	221.5	216.5	207.2	201.6	199.1
35°	212.2	207.0	197.3	191.1	188.0
37.5°	203.4	197.1	187.1	179.8	176.7
40°	193.9	187.4	177.0	168.8	166.2
42.5°	183.9	177.2	166.4	158.6	154.5
45°	173.7	167.5	155.6	147.0	143.7
47.5°	163.1	156.7	144.8	135.9	132.2
50°	153.2	146.1	133.8	124.7	121.5
52.5°	142.4	135.1	123.6	113.6	110.4
55°	131.8	124.9	112.8	103.1	99.7
57.5°	121.0	113.6	102.0	92.5	89.5
60°	110.6	103.1	91.4	81.9	78.6
62.5°	99.7	92.5	80.6	72.0	68.7
65°	89.3	81.9	70.5	61.8	58.5
67.5°	78.9	71.6	60.5	52.3	49.7
70°	68.3	60.9	50.1	43.4	40.8
72.5°	57.9	50.8	40.8	34.8	33.3
75°	47.5	41.0	32.0	27.3	25.7
77.5°	36.9	31.7	24.2	20.6	19.2
80°	28.1	22.9	16.9	14.9	14.5
82.5°	19.4	14.9	11.3	10.5	10.4
85°	11.9	8.0	6.9	6.7	6.5
87.5°	5.0	3.4	3.2	3.2	3.0
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)