

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: P888097

Luminaire Tested: **DPT5-4F029-37V60-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: P888097
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_2700K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

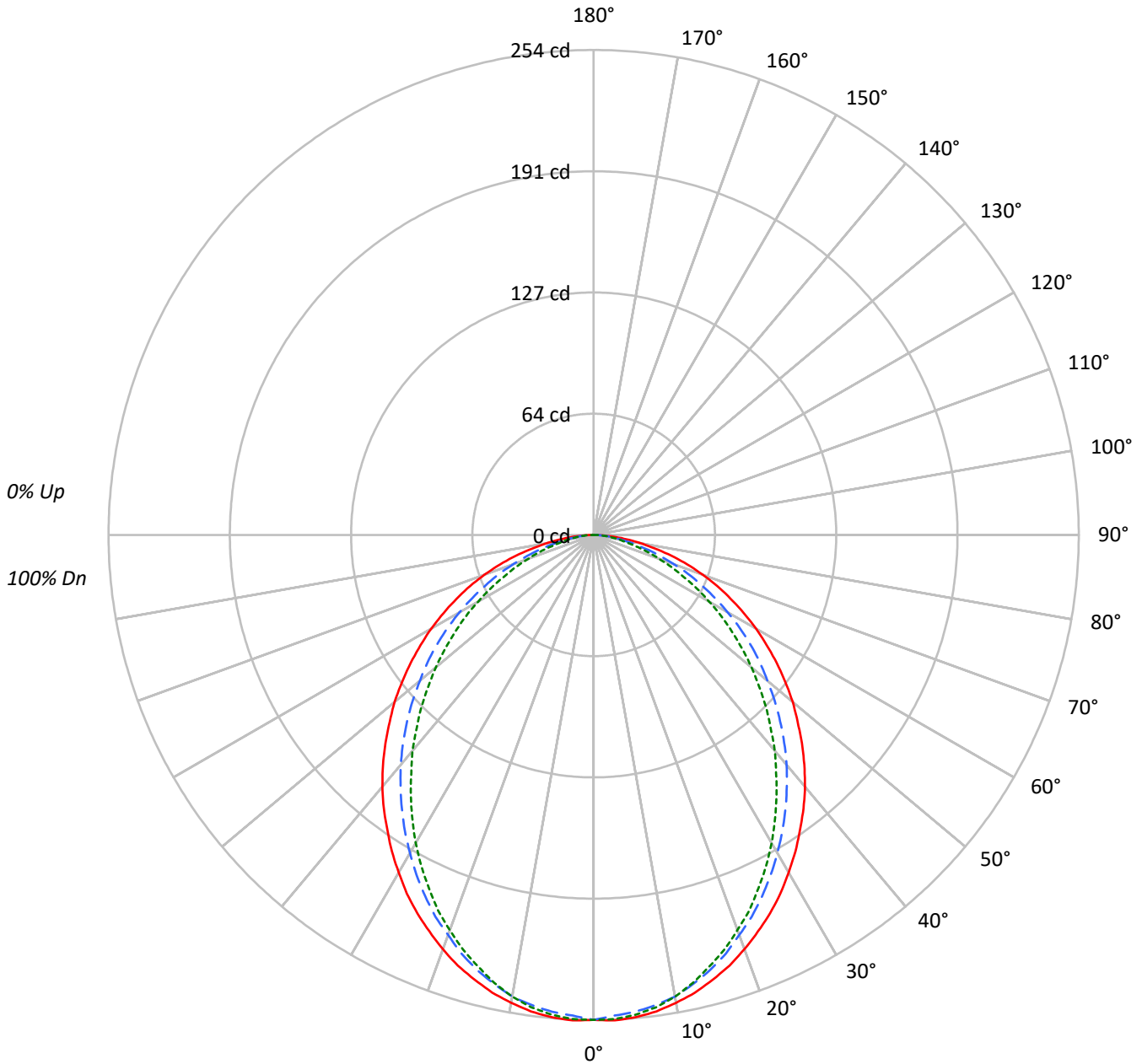
Lumens per Lamp: N/A
Luminaire Lumens: 600.1 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

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

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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°	3025	3025	3025
5°	3032	2997	3015
10°	3009	2969	2969
15°	2973	2909	2885
20°	2926	2825	2791
25°	2873	2742	2682
30°	2807	2646	2562
35°	2739	2546	2427
40°	2676	2442	2293
45°	2597	2326	2149
50°	2520	2199	1997
55°	2429	2081	1838
60°	2339	1932	1663
65°	2232	1761	1463
70°	2110	1550	1264
75°	1942	1307	1049
80°	1708	1029	885
85°	1435	847	793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	4.0
10°-20°	66.8	11.1
20°-30°	96.9	16.1
30°-40°	110.3	18.4
40°-50°	107.6	17.9
50°-60°	90.5	15.1
60°-70°	63.4	10.6
70°-80°	32.5	5.4
80°-90°	8.1	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°	187.6	31.3
0°-40°	297.9	49.6
0°-60°	496.0	82.7
0°-90°	600.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	600.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	254	254	254	254	254	
5°	254	253	251	253	252	24
15°	241	240	236	236	234	68
25°	219	216	209	206	204	101
35°	188	184	175	170	167	118
45°	154	149	138	130	128	119
55°	117	111	100	92	88	105
65°	79	73	62	55	52	78
75°	42	36	28	24	23	45
85°	10	7	6	6	6	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	254.0	254.0	254.0	254.0	254.0
2.5°	254.5	254.0	252.0	254.0	253.8
5°	253.6	252.8	250.7	252.6	252.2
7.5°	251.7	250.9	248.4	249.9	249.6
10°	248.8	248.2	245.5	246.1	245.5
12.5°	245.5	244.7	240.9	241.3	240.3
15°	241.1	239.9	235.9	235.7	234.0
17.5°	236.5	234.8	230.0	229.0	227.7
20°	230.9	229.0	222.9	221.9	220.2
22.5°	224.8	222.9	216.4	214.3	212.9
25°	218.6	215.8	208.7	206.2	204.1
27.5°	211.8	208.3	200.8	197.6	195.5
30°	204.1	200.5	192.4	188.0	186.3
32.5°	196.6	192.2	183.9	179.0	176.7
35°	188.4	183.8	175.1	169.6	166.9
37.5°	180.5	174.9	166.1	159.6	156.9
40°	172.1	166.3	157.1	149.8	147.5
42.5°	163.2	157.3	147.7	140.8	137.1
45°	154.2	148.7	138.1	130.4	127.6
47.5°	144.8	139.1	128.5	120.7	117.4
50°	136.0	129.7	118.7	110.7	107.8
52.5°	126.4	119.9	109.7	100.9	98.0
55°	117.0	110.9	100.2	91.5	88.5
57.5°	107.4	100.9	90.6	82.1	79.4
60°	98.2	91.5	81.1	72.7	69.8
62.5°	88.5	82.1	71.6	63.9	61.0
65°	79.2	72.7	62.5	54.8	51.9
67.5°	70.0	63.5	53.7	46.4	44.2
70°	60.6	54.1	44.5	38.5	36.3
72.5°	51.4	45.1	36.3	30.9	29.6
75°	42.2	36.4	28.4	24.2	22.8
77.5°	32.8	28.2	21.5	18.3	17.1
80°	24.9	20.4	15.0	13.2	12.9
82.5°	17.3	13.2	10.0	9.4	9.2
85°	10.5	7.1	6.2	5.9	5.8
87.5°	4.4	3.1	2.9	2.9	2.7
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)