

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: P888102

Luminaire Tested: **DPT5-4F029-37V60-A-XX-UDD_5000K**

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: P888102
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_5000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

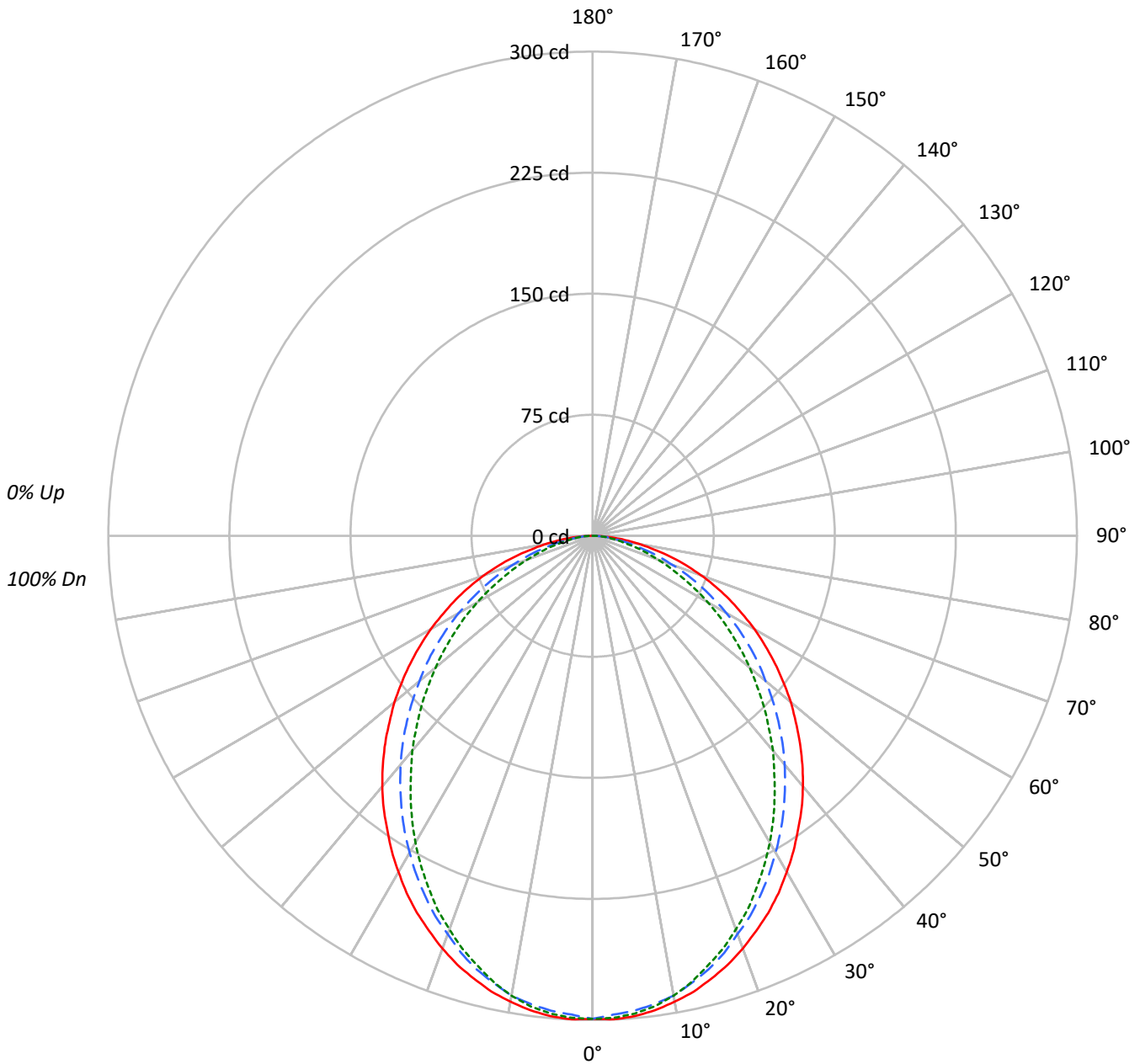
Lumens per Lamp: N/A
Luminaire Lumens: 707.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

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°	3565	3565	3565
5°	3572	3532	3553
10°	3545	3499	3499
15°	3503	3428	3399
20°	3449	3328	3289
25°	3385	3231	3160
30°	3307	3118	3019
35°	3226	3001	2858
40°	3151	2878	2702
45°	3060	2740	2531
50°	2968	2592	2353
55°	2863	2450	2164
60°	2756	2277	1960
65°	2632	2077	1725
70°	2486	1825	1487
75°	2287	1542	1238
80°	2016	1214	1042
85°	1694	998	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.2	4.0
10°-20°	78.7	11.1
20°-30°	114.1	16.1
30°-40°	130.0	18.4
40°-50°	126.7	17.9
50°-60°	106.7	15.1
60°-70°	74.7	10.6
70°-80°	38.3	5.4
80°-90°	9.6	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°	221.0	31.3
0°-40°	351.0	49.6
0°-60°	584.4	82.7
0°-90°	707.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	299	299	299	299	299	
5°	299	298	295	298	297	28
15°	284	283	278	278	276	80
25°	258	254	246	243	240	119
35°	222	216	206	200	197	139
45°	182	175	163	154	150	140
55°	138	131	118	108	104	123
65°	93	86	74	65	61	92
75°	50	43	34	28	27	53
85°	12	8	7	7	7	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	299.3	299.3	299.3	299.3	299.3
2.5°	299.9	299.3	297.0	299.3	299.0
5°	298.8	297.9	295.4	297.6	297.2
7.5°	296.5	295.6	292.7	294.5	294.1
10°	293.1	292.5	289.3	290.0	289.3
12.5°	289.3	288.4	283.8	284.3	283.2
15°	284.1	282.7	278.0	277.8	275.7
17.5°	278.7	276.7	271.0	269.9	268.3
20°	272.1	269.9	262.6	261.5	259.5
22.5°	264.9	262.6	255.0	252.5	250.8
25°	257.6	254.2	245.9	243.0	240.5
27.5°	249.5	245.4	236.6	232.8	230.3
30°	240.5	236.2	226.7	221.5	219.5
32.5°	231.6	226.5	216.8	210.9	208.2
35°	221.9	216.5	206.4	199.8	196.6
37.5°	212.7	206.1	195.7	188.1	184.8
40°	202.7	196.0	185.1	176.5	173.8
42.5°	192.3	185.3	174.0	165.9	161.6
45°	181.7	175.2	162.7	153.7	150.3
47.5°	170.6	163.9	151.4	142.2	138.3
50°	160.2	152.8	139.9	130.4	127.0
52.5°	148.9	141.3	129.3	118.9	115.5
55°	137.9	130.6	118.0	107.8	104.2
57.5°	126.6	118.9	106.7	96.7	93.6
60°	115.7	107.8	95.6	85.7	82.3
62.5°	104.2	96.7	84.3	75.3	71.9
65°	93.4	85.7	73.7	64.6	61.2
67.5°	82.5	74.8	63.3	54.7	52.0
70°	71.4	63.7	52.4	45.4	42.7
72.5°	60.6	53.1	42.7	36.4	34.8
75°	49.7	42.9	33.5	28.5	26.9
77.5°	38.6	33.2	25.3	21.5	20.1
80°	29.4	24.0	17.7	15.6	15.2
82.5°	20.3	15.6	11.8	11.0	10.9
85°	12.4	8.3	7.3	7.0	6.8
87.5°	5.2	3.6	3.4	3.4	3.1
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)