

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: P888096

Luminaire Tested: **DPT5-4F029-37S40-A-XX-UDD**

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: P888096
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: DPT5-4F029-37S40-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

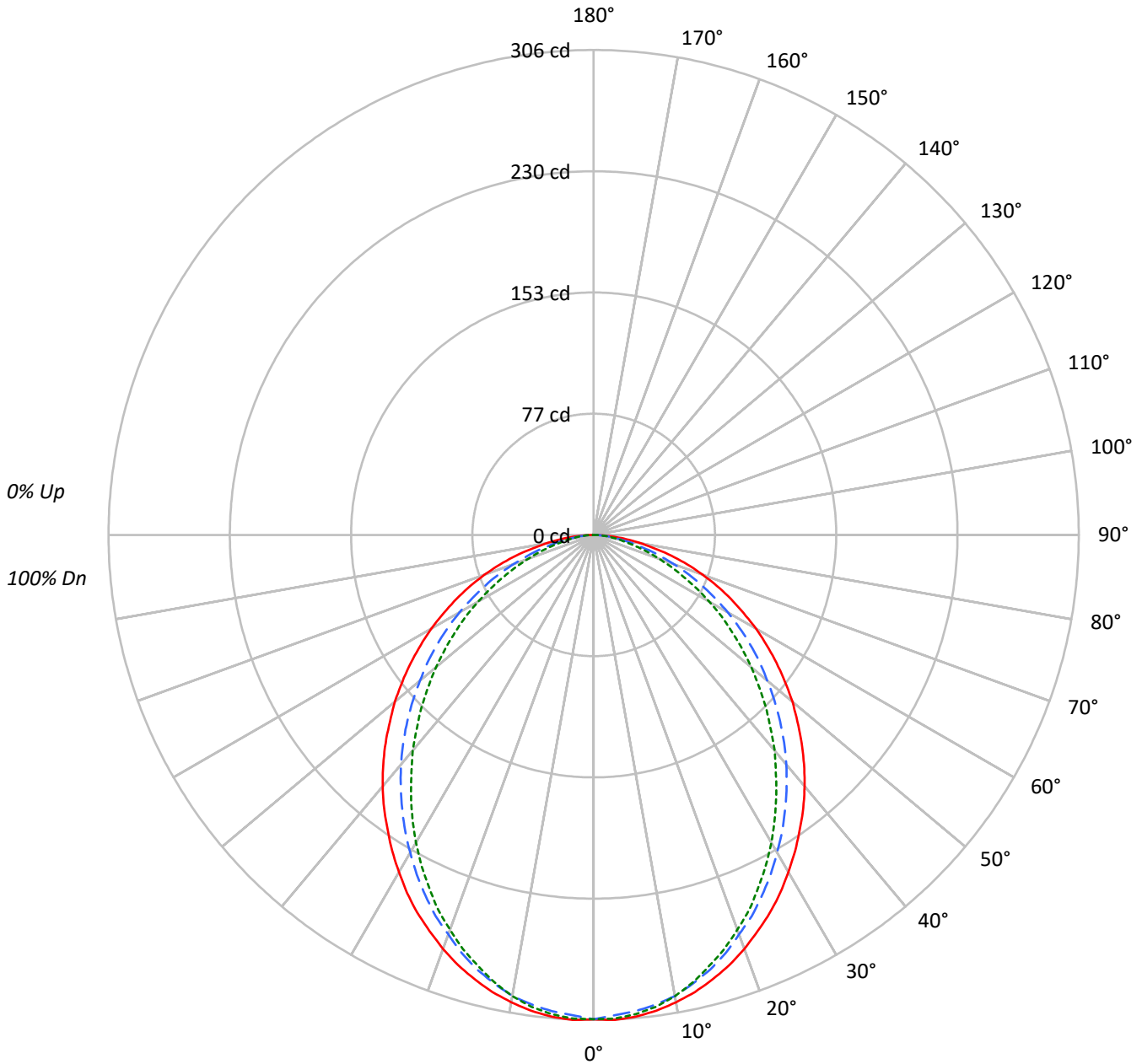
Lumens per Lamp: N/A
Luminaire Lumens: 722.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

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°	3640	3640	3640
5°	3647	3607	3628
10°	3621	3572	3572
15°	3578	3500	3472
20°	3522	3399	3359
25°	3457	3300	3227
30°	3377	3184	3082
35°	3296	3063	2919
40°	3218	2938	2760
45°	3126	2799	2585
50°	3031	2648	2403
55°	2924	2502	2209
60°	2815	2325	2001
65°	2686	2122	1761
70°	2542	1863	1518
75°	2338	1574	1265
80°	2058	1235	1063
85°	1735	1011	943



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	4.0
10°-20°	80.4	11.1
20°-30°	116.5	16.1
30°-40°	132.8	18.4
40°-50°	129.4	17.9
50°-60°	108.9	15.1
60°-70°	76.3	10.6
70°-80°	39.1	5.4
80°-90°	9.8	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°	225.7	31.3
0°-40°	358.5	49.6
0°-60°	596.8	82.7
0°-90°	722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	722.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	306	306	306	306	306	
5°	305	304	302	304	304	29
15°	290	289	284	284	282	82
25°	263	260	251	248	246	121
35°	227	221	211	204	201	142
45°	186	179	166	157	154	143
55°	141	133	120	110	106	126
65°	95	88	75	66	62	94
75°	51	44	34	29	28	54
85°	13	8	7	7	7	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	305.6	305.6	305.6	305.6	305.6
2.5°	306.3	305.6	303.3	305.6	305.4
5°	305.1	304.2	301.7	303.9	303.5
7.5°	302.8	301.9	298.9	300.7	300.3
10°	299.4	298.7	295.4	296.1	295.4
12.5°	295.4	294.5	289.9	290.3	289.2
15°	290.2	288.7	283.9	283.6	281.6
17.5°	284.6	282.5	276.7	275.6	274.0
20°	277.9	275.6	268.2	267.0	265.0
22.5°	270.5	268.2	260.4	257.8	256.2
25°	263.1	259.6	251.1	248.1	245.6
27.5°	254.8	250.6	241.6	237.7	235.2
30°	245.6	241.2	231.5	226.2	224.1
32.5°	236.5	231.3	221.3	215.4	212.6
35°	226.7	221.1	210.7	204.1	200.8
37.5°	217.2	210.5	199.9	192.1	188.8
40°	207.0	200.1	189.0	180.2	177.5
42.5°	196.4	189.2	177.7	169.4	165.0
45°	185.6	178.9	166.2	157.0	153.5
47.5°	174.2	167.4	154.6	145.2	141.2
50°	163.6	156.0	142.9	133.2	129.7
52.5°	152.1	144.3	132.0	121.4	117.9
55°	140.8	133.4	120.5	110.1	106.4
57.5°	129.3	121.4	109.0	98.8	95.6
60°	118.2	110.1	97.6	87.5	84.0
62.5°	106.4	98.8	86.1	76.9	73.4
65°	95.3	87.5	75.3	66.0	62.5
67.5°	84.2	76.4	64.6	55.9	53.1
70°	73.0	65.1	53.5	46.4	43.6
72.5°	61.9	54.2	43.6	37.2	35.6
75°	50.8	43.8	34.2	29.1	27.5
77.5°	39.4	33.9	25.8	22.0	20.6
80°	30.0	24.5	18.0	15.9	15.5
82.5°	20.8	15.9	12.0	11.3	11.1
85°	12.7	8.5	7.4	7.1	6.9
87.5°	5.4	3.7	3.5	3.5	3.2
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)