

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: P888023

Luminaire Tested: **DPT5-4F021-109V60-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: P888023
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: DPT5-4F021-109V60-A-XX-UDD_4000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

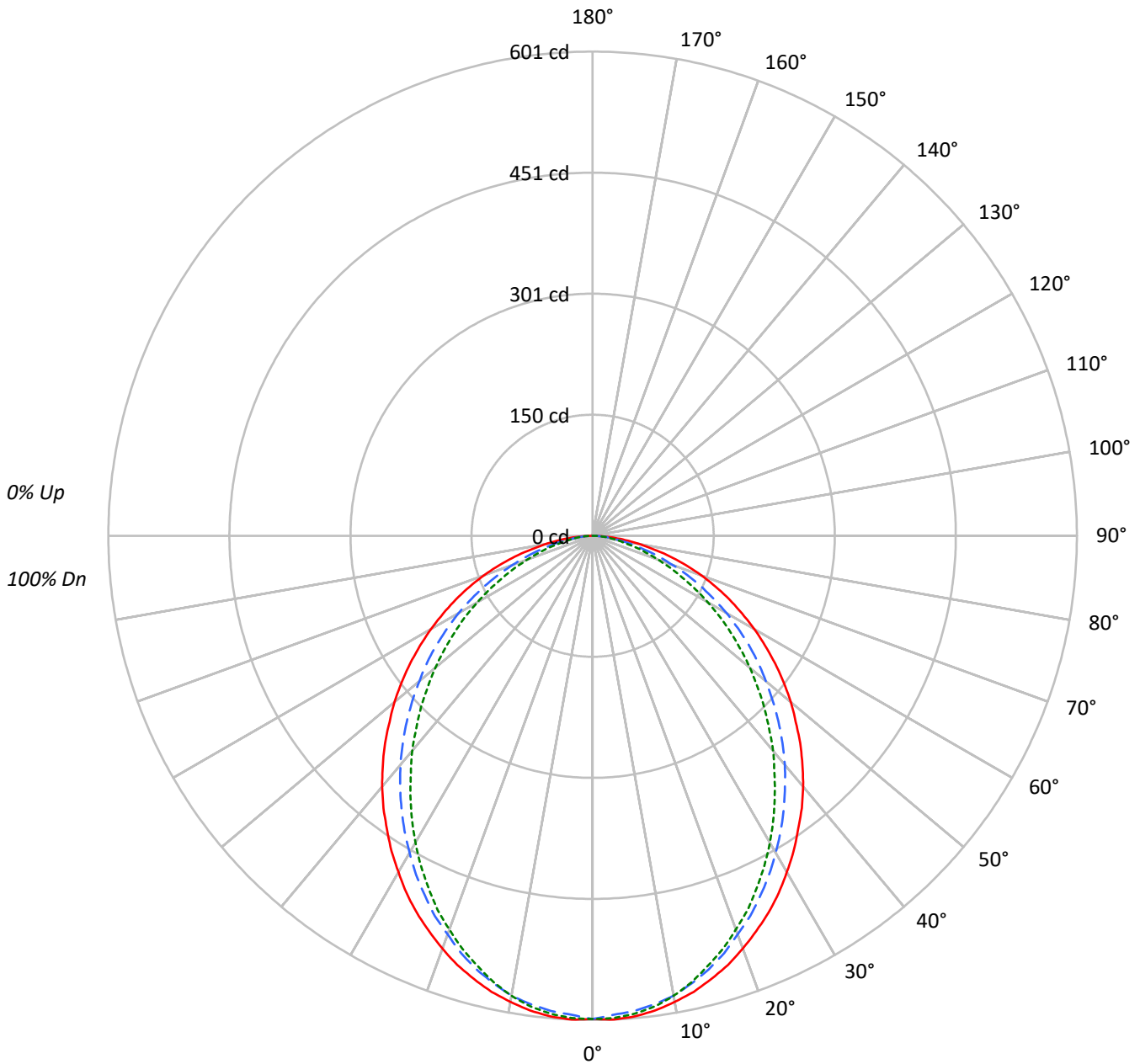
Lumens per Lamp: N/A
Luminaire Lumens: 1417.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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°	10037	10037	10037
5°	10060	9946	10005
10°	9983	9852	9852
15°	9866	9651	9573
20°	9711	9372	9260
25°	9533	9099	8899
30°	9313	8778	8500
35°	9086	8449	8051
40°	8878	8104	7611
45°	8619	7717	7128
50°	8362	7300	6628
55°	8064	6900	6095
60°	7761	6412	5519
65°	7408	5848	4858
70°	7006	5137	4188
75°	6446	4338	3485
80°	5676	3411	2930
85°	4781	2784	2611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	4.0
10°-20°	157.7	11.1
20°-30°	228.7	16.1
30°-40°	260.6	18.4
40°-50°	254.0	17.9
50°-60°	213.8	15.1
60°-70°	149.8	10.6
70°-80°	76.8	5.4
80°-90°	19.2	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°	442.9	31.3
0°-40°	703.5	49.6
0°-60°	1171.3	82.7
0°-90°	1417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1417.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	600	600	600	600	600	
5°	599	597	592	596	596	57
15°	570	567	557	557	553	161
25°	516	510	493	487	482	238
35°	445	434	414	400	394	279
45°	364	351	326	308	301	281
55°	276	262	236	216	209	247
65°	187	172	148	130	123	185
75°	100	86	67	57	54	105
85°	25	17	14	14	14	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	599.8	599.8	599.8	599.8	599.8
2.5°	601.1	599.8	595.2	599.8	599.3
5°	598.9	597.1	592.1	596.5	595.6
7.5°	594.3	592.5	586.6	590.2	589.4
10°	587.5	586.2	579.8	581.2	579.8
12.5°	579.8	577.9	568.9	569.8	567.6
15°	569.5	566.7	557.1	556.7	552.6
17.5°	558.5	554.5	543.1	540.9	537.7
20°	545.3	540.9	526.3	524.1	520.0
22.5°	530.9	526.3	511.1	506.0	502.7
25°	516.3	509.5	492.8	486.9	482.0
27.5°	500.1	491.9	474.3	466.6	461.6
30°	482.0	473.4	454.3	444.0	439.9
32.5°	464.3	453.9	434.4	422.7	417.3
35°	444.8	434.0	413.6	400.5	394.1
37.5°	426.3	413.1	392.2	376.9	370.5
40°	406.4	392.7	371.0	353.8	348.4
42.5°	385.4	371.4	348.7	332.5	323.8
45°	364.2	351.2	326.1	308.0	301.2
47.5°	341.9	328.5	303.4	284.9	277.2
50°	321.2	306.2	280.4	261.4	254.6
52.5°	298.5	283.2	259.1	238.2	231.4
55°	276.4	261.8	236.5	216.1	208.9
57.5°	253.7	238.2	213.8	193.9	187.5
60°	231.9	216.1	191.6	171.7	164.9
62.5°	208.9	193.9	169.0	150.8	144.0
65°	187.1	171.7	147.7	129.5	122.7
67.5°	165.3	150.0	126.8	109.7	104.3
70°	143.2	127.7	105.0	91.0	85.6
72.5°	121.4	106.5	85.6	72.9	69.8
75°	99.7	86.0	67.1	57.1	53.9
77.5°	77.4	66.5	50.7	43.1	40.3
80°	58.9	48.1	35.4	31.3	30.4
82.5°	40.8	31.3	23.6	22.1	21.8
85°	24.9	16.7	14.5	14.0	13.6
87.5°	10.5	7.2	6.8	6.8	6.3
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)