

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: P888056

Luminaire Tested: **DPT5-4F021-61V60-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: P888056
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: DPT5-4F021-61V60-A-XX-UDD_4000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

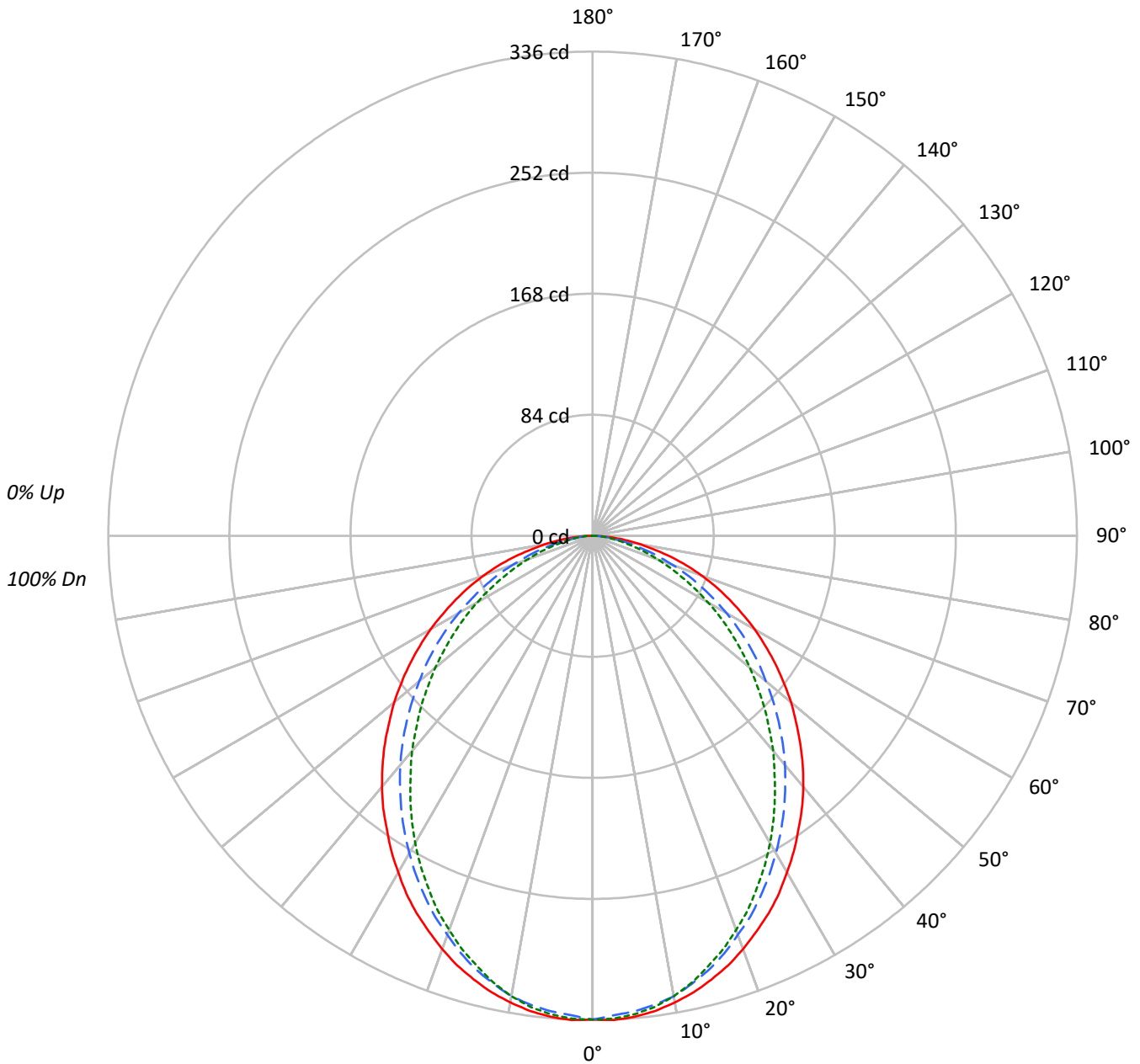
Lumens per Lamp: N/A
Luminaire Lumens: 793.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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°	5618	5618	5618
5°	5629	5565	5599
10°	5587	5514	5514
15°	5521	5402	5358
20°	5435	5246	5182
25°	5336	5092	4980
30°	5211	4914	4757
35°	5085	4729	4504
40°	4967	4535	4260
45°	4823	4319	3990
50°	4678	4085	3710
55°	4513	3863	3410
60°	4344	3588	3089
65°	4146	3275	2720
70°	3919	2877	2344
75°	3608	2425	1953
80°	3180	1908	1638
85°	2669	1555	1459



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.6	4.0
10°-20°	88.3	11.1
20°-30°	128.0	16.1
30°-40°	145.8	18.4
40°-50°	142.1	17.9
50°-60°	119.6	15.1
60°-70°	83.8	10.6
70°-80°	43.0	5.4
80°-90°	10.7	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°	247.9	31.3
0°-40°	393.7	49.6
0°-60°	655.5	82.7
0°-90°	793.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	793.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	336	336	336	336	336	
5°	335	334	331	334	333	32
15°	319	317	312	312	309	90
25°	289	285	276	272	270	133
35°	249	243	232	224	220	156
45°	204	196	182	172	169	157
55°	155	146	132	121	117	138
65°	105	96	83	72	69	104
75°	56	48	38	32	30	59
85°	14	9	8	8	8	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	335.7	335.7	335.7	335.7	335.7
2.5°	336.4	335.7	333.1	335.7	335.4
5°	335.1	334.2	331.3	333.8	333.3
7.5°	332.6	331.6	328.3	330.3	329.8
10°	328.8	328.0	324.5	325.3	324.5
12.5°	324.5	323.4	318.4	318.9	317.7
15°	318.7	317.1	311.8	311.5	309.3
17.5°	312.6	310.3	303.9	302.7	300.9
20°	305.2	302.7	294.6	293.3	291.0
22.5°	297.1	294.6	286.0	283.2	281.3
25°	289.0	285.2	275.8	272.5	269.7
27.5°	279.9	275.3	265.4	261.1	258.4
30°	269.7	264.9	254.3	248.5	246.2
32.5°	259.8	254.0	243.1	236.5	233.5
35°	248.9	242.9	231.5	224.1	220.5
37.5°	238.6	231.2	219.5	211.0	207.3
40°	227.4	219.8	207.6	198.0	195.0
42.5°	215.7	207.8	195.2	186.1	181.2
45°	203.8	196.5	182.5	172.4	168.6
47.5°	191.3	183.8	169.8	159.5	155.1
50°	179.7	171.4	156.9	146.3	142.5
52.5°	167.0	158.5	145.0	133.3	129.5
55°	154.7	146.5	132.4	120.9	116.9
57.5°	142.0	133.3	119.7	108.5	105.0
60°	129.8	120.9	107.2	96.1	92.3
62.5°	116.9	108.5	94.6	84.4	80.6
65°	104.7	96.1	82.7	72.5	68.7
67.5°	92.5	83.9	71.0	61.4	58.4
70°	80.1	71.5	58.8	50.9	47.9
72.5°	68.0	59.6	47.9	40.8	39.1
75°	55.8	48.2	37.5	32.0	30.2
77.5°	43.3	37.2	28.4	24.1	22.6
80°	33.0	26.9	19.8	17.5	17.0
82.5°	22.8	17.5	13.2	12.4	12.2
85°	13.9	9.4	8.1	7.9	7.6
87.5°	5.9	4.0	3.8	3.8	3.5
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)