

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: P888047

Luminaire Tested: **DPT5-4F021-37V60-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: P888047
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: DPT5-4F021-37V60-A-XX-UDD_5000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

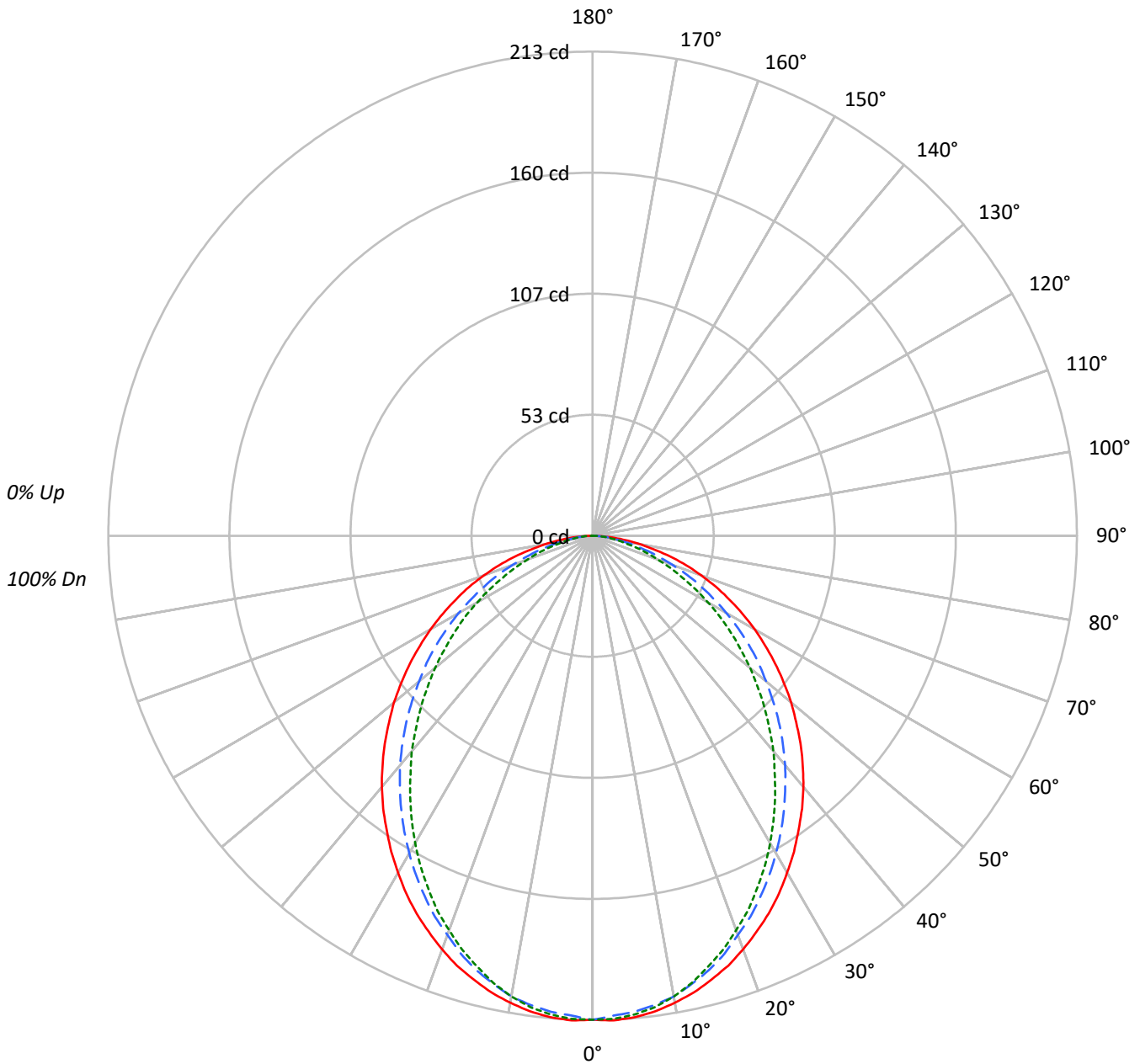
Lumens per Lamp: N/A
Luminaire Lumens: 503.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 5
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°	3563	3563	3563
5°	3571	3531	3551
10°	3545	3497	3497
15°	3501	3427	3399
20°	3448	3326	3287
25°	3384	3229	3159
30°	3306	3117	3016
35°	3226	2999	2858
40°	3150	2877	2702
45°	3060	2740	2530
50°	2968	2590	2353
55°	2862	2451	2165
60°	2754	2276	1958
65°	2629	2075	1722
70°	2485	1825	1487
75°	2289	1539	1235
80°	2014	1214	1041
85°	1690	998	922



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.0	4.0
10°-20°	56.0	11.1
20°-30°	81.2	16.1
30°-40°	92.5	18.4
40°-50°	90.2	17.9
50°-60°	75.9	15.1
60°-70°	53.2	10.6
70°-80°	27.3	5.4
80°-90°	6.8	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°	157.2	31.3
0°-40°	249.7	49.6
0°-60°	415.8	82.7
0°-90°	503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	213	213	213	213	213	
5°	213	212	210	212	211	20
15°	202	201	198	198	196	57
25°	183	181	175	173	171	84
35°	158	154	147	142	140	99
45°	129	125	116	109	107	100
55°	98	93	84	77	74	88
65°	66	61	52	46	44	66
75°	35	30	24	20	19	37
85°	9	6	5	5	5	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	212.9	212.9	212.9	212.9	212.9
2.5°	213.4	212.9	211.3	212.9	212.7
5°	212.6	212.0	210.2	211.7	211.4
7.5°	211.0	210.3	208.2	209.5	209.2
10°	208.6	208.1	205.8	206.3	205.8
12.5°	205.8	205.2	201.9	202.3	201.5
15°	202.1	201.2	197.8	197.6	196.2
17.5°	198.3	196.8	192.8	192.0	190.9
20°	193.6	192.0	186.8	186.0	184.6
22.5°	188.5	186.8	181.4	179.6	178.5
25°	183.3	180.9	174.9	172.9	171.1
27.5°	177.5	174.6	168.3	165.6	163.9
30°	171.1	168.0	161.3	157.6	156.1
32.5°	164.8	161.1	154.2	150.0	148.1
35°	157.9	154.1	146.8	142.2	139.9
37.5°	151.3	146.6	139.2	133.8	131.5
40°	144.2	139.4	131.7	125.6	123.7
42.5°	136.8	131.8	123.8	118.0	115.0
45°	129.3	124.6	115.8	109.3	106.9
47.5°	121.4	116.6	107.7	101.1	98.4
50°	114.0	108.7	99.5	92.8	90.4
52.5°	105.9	100.5	92.0	84.6	82.1
55°	98.1	92.9	84.0	76.7	74.2
57.5°	90.0	84.6	75.9	68.8	66.6
60°	82.3	76.7	68.0	60.9	58.5
62.5°	74.2	68.8	60.0	53.5	51.1
65°	66.4	60.9	52.4	46.0	43.5
67.5°	58.7	53.2	45.0	38.9	37.0
70°	50.8	45.3	37.3	32.3	30.4
72.5°	43.1	37.8	30.4	25.9	24.8
75°	35.4	30.5	23.8	20.3	19.1
77.5°	27.5	23.6	18.0	15.3	14.3
80°	20.9	17.1	12.6	11.1	10.8
82.5°	14.5	11.1	8.4	7.8	7.7
85°	8.8	5.9	5.2	5.0	4.8
87.5°	3.7	2.6	2.4	2.4	2.2
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)