

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: P888233

Luminaire Tested: **DPT5-6FO44-85V60-A-XX-UDD_4500K**

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: P888233
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: DPT5-6FO44-85V60-A-XX-UDD_4500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

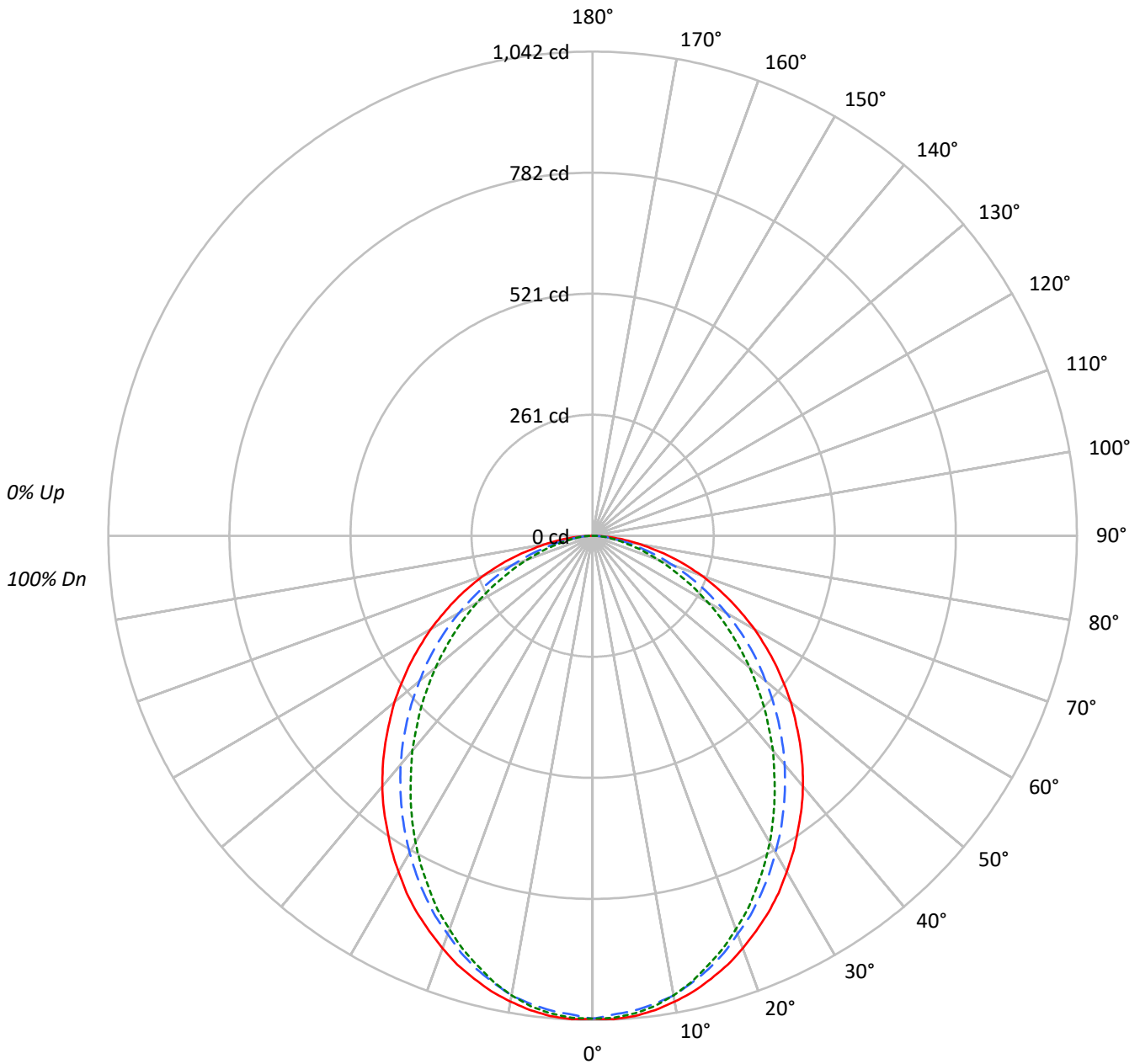
Lumens per Lamp: N/A
Luminaire Lumens: 2455.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 24.8
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°	8034	8034	8034
5°	8052	7961	8008
10°	7991	7885	7885
15°	7896	7725	7663
20°	7773	7502	7412
25°	7631	7283	7123
30°	7454	7027	6803
35°	7274	6762	6444
40°	7105	6486	6091
45°	6898	6177	5706
50°	6692	5843	5305
55°	6453	5523	4878
60°	6212	5132	4416
65°	5930	4681	3887
70°	5608	4114	3352
75°	5158	3471	2793
80°	4545	2729	2346
85°	3823	2235	2093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	4.0
10°-20°	273.3	11.1
20°-30°	396.3	16.1
30°-40°	451.5	18.4
40°-50°	440.1	17.9
50°-60°	370.3	15.1
60°-70°	259.5	10.6
70°-80°	133.1	5.4
80°-90°	33.2	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°	767.4	31.3
0°-40°	1218.9	49.6
0°-60°	2029.2	82.7
0°-90°	2455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2455.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1038	1034	1026	1034	1032	98
15°	987	982	965	964	958	278
25°	895	883	854	844	835	412
35°	771	752	716	694	683	483
45°	631	608	565	534	522	487
55°	479	454	410	374	362	428
65°	324	297	256	224	212	321
75°	173	149	116	99	94	183
85°	43	29	25	24	24	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039.2	1039.2	1039.2	1039.2	1039.2
2.5°	1041.5	1039.2	1031.3	1039.2	1038.3
5°	1037.6	1034.5	1025.8	1033.5	1031.9
7.5°	1029.7	1026.5	1016.3	1022.6	1021.1
10°	1017.9	1015.6	1004.5	1007.0	1004.5
12.5°	1004.5	1001.3	985.6	987.2	983.4
15°	986.6	981.8	965.2	964.5	957.5
17.5°	967.7	960.7	940.9	937.1	931.6
20°	944.8	937.1	911.9	908.0	901.0
22.5°	919.8	911.9	885.4	876.7	871.0
25°	894.6	882.8	853.8	843.6	835.0
27.5°	866.5	852.2	821.7	808.4	799.8
30°	835.0	820.2	787.2	769.2	762.1
32.5°	804.3	786.4	752.6	732.3	723.0
35°	770.7	751.9	716.5	693.8	682.8
37.5°	738.5	715.7	679.6	653.1	641.9
40°	704.0	680.4	642.7	612.9	603.6
42.5°	667.8	643.5	604.2	576.1	561.1
45°	630.9	608.4	565.0	533.7	521.9
47.5°	592.4	569.1	525.7	493.7	480.3
50°	556.4	530.5	485.8	452.9	441.1
52.5°	517.1	490.6	448.8	412.7	400.9
55°	478.8	453.6	409.8	374.4	361.9
57.5°	439.5	412.7	370.5	335.9	324.9
60°	401.8	374.4	331.9	297.4	285.6
62.5°	361.9	335.9	292.8	261.3	249.5
65°	324.2	297.4	255.9	224.3	212.5
67.5°	286.4	259.9	219.7	190.0	180.7
70°	248.1	221.3	182.0	157.7	148.3
72.5°	210.4	184.5	148.3	126.4	121.0
75°	172.7	149.1	116.2	99.0	93.5
77.5°	134.1	115.3	87.8	74.7	69.9
80°	102.1	83.3	61.3	54.2	52.7
82.5°	70.6	54.2	40.9	38.3	37.7
85°	43.1	29.0	25.2	24.3	23.6
87.5°	18.2	12.5	11.8	11.8	10.9
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)