

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: P888234

Luminaire Tested: **DPT5-6FO44-85V60-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: P888234
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_5000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

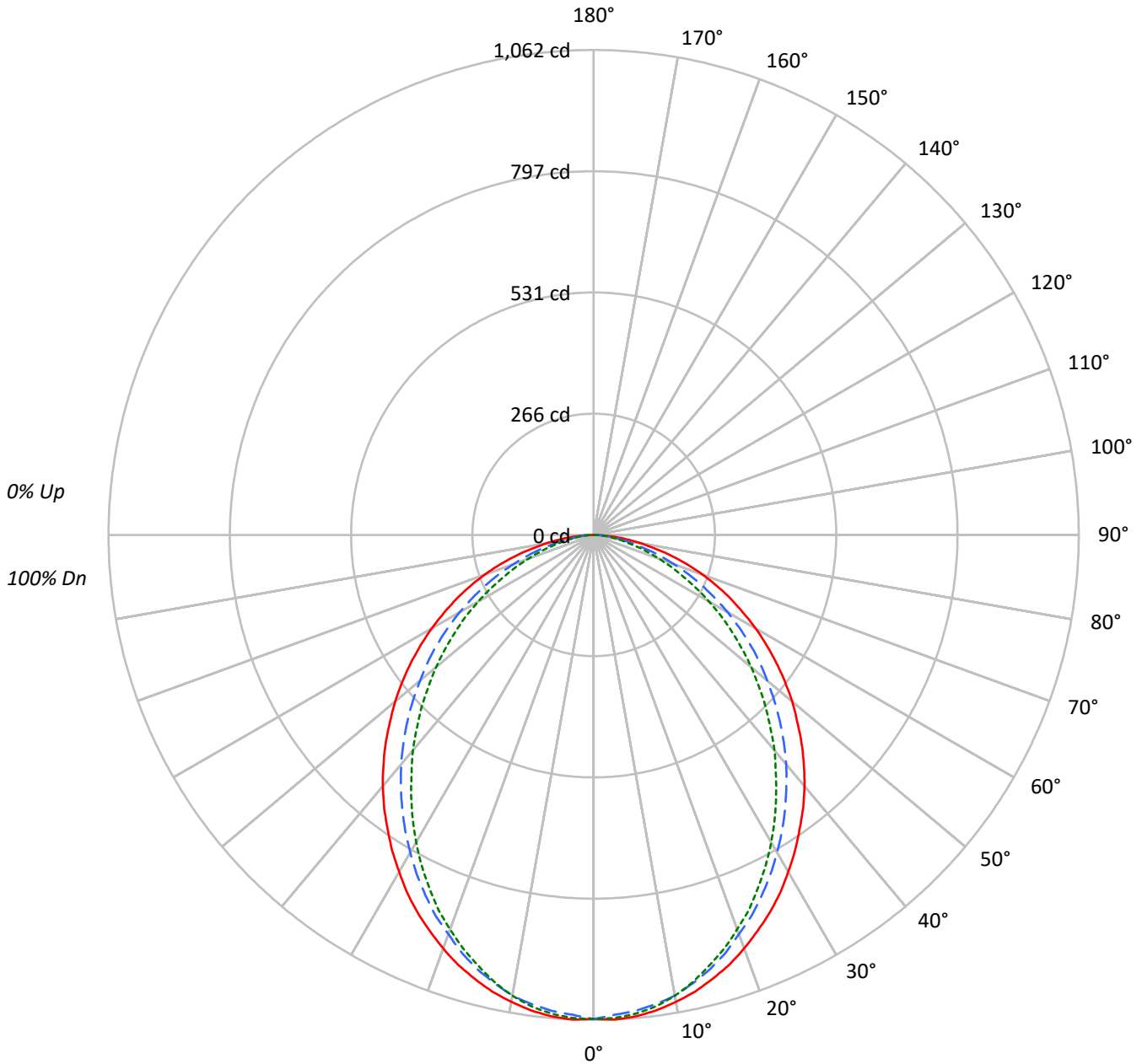
Lumens per Lamp: N/A
Luminaire Lumens: 2504.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

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°	8194	8194	8194
5°	8213	8119	8168
10°	8150	8043	8043
15°	8054	7879	7816
20°	7928	7652	7561
25°	7783	7429	7265
30°	7603	7167	6939
35°	7419	6897	6572
40°	7247	6616	6213
45°	7035	6301	5820
50°	6825	5959	5411
55°	6583	5634	4975
60°	6336	5234	4504
65°	6049	4774	3966
70°	5719	4195	3420
75°	5260	3540	2847
80°	4635	2782	2395
85°	3903	2280	2138



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	4.0
10°-20°	278.8	11.1
20°-30°	404.2	16.1
30°-40°	460.5	18.4
40°-50°	448.8	17.9
50°-60°	377.7	15.1
60°-70°	264.7	10.6
70°-80°	135.7	5.4
80°-90°	33.8	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°	782.7	31.3
0°-40°	1243.2	49.6
0°-60°	2069.8	82.7
0°-90°	2504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1058	1055	1046	1054	1052	100
15°	1006	1001	984	984	977	284
25°	912	900	871	860	852	420
35°	786	767	731	708	696	492
45°	644	620	576	544	532	496
55°	488	463	418	382	369	437
65°	331	303	261	229	217	327
75°	176	152	118	101	95	186
85°	44	30	26	25	24	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.9	1059.9	1059.9	1059.9	1059.9
2.5°	1062.3	1059.9	1051.9	1059.9	1059.0
5°	1058.3	1055.1	1046.2	1054.1	1052.5
7.5°	1050.2	1047.0	1036.6	1043.0	1041.5
10°	1038.2	1035.8	1024.6	1027.1	1024.6
12.5°	1024.6	1021.3	1005.2	1006.9	1003.0
15°	1006.3	1001.4	984.5	983.7	976.6
17.5°	987.0	979.9	959.7	955.8	950.2
20°	963.7	955.8	930.1	926.1	919.0
22.5°	938.1	930.1	903.1	894.2	888.4
25°	912.4	900.4	870.9	860.5	851.7
27.5°	883.8	869.2	838.1	824.5	815.8
30°	851.7	836.6	802.9	784.6	777.3
32.5°	820.4	802.1	767.7	746.9	737.4
35°	786.1	766.9	730.8	707.7	696.4
37.5°	753.3	730.0	693.1	666.1	654.7
40°	718.1	694.0	655.6	625.1	615.6
42.5°	681.1	656.3	616.2	587.6	572.3
45°	643.5	620.5	576.3	544.3	532.3
47.5°	604.2	580.4	536.2	503.5	489.9
50°	567.5	541.1	495.5	461.9	449.9
52.5°	527.4	500.4	457.8	421.0	408.9
55°	488.4	462.7	418.0	381.9	369.1
57.5°	448.3	421.0	377.9	342.6	331.4
60°	409.8	381.9	338.5	303.4	291.3
62.5°	369.1	342.6	298.6	266.5	254.5
65°	330.7	303.4	261.0	228.8	216.8
67.5°	292.1	265.0	224.1	193.8	184.3
70°	253.0	225.7	185.6	160.8	151.3
72.5°	214.6	188.1	151.3	128.9	123.4
75°	176.1	152.0	118.5	101.0	95.3
77.5°	136.8	117.6	89.5	76.2	71.3
80°	104.1	84.9	62.5	55.2	53.8
82.5°	72.0	55.2	41.7	39.1	38.5
85°	44.0	29.5	25.7	24.8	24.1
87.5°	18.6	12.8	12.0	12.0	11.1
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)