

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: P888227

Luminaire Tested: **DPT5-6FO44-85S35-A-XX-UDD**

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: P888227
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: DPT5-6FO44-85S35-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

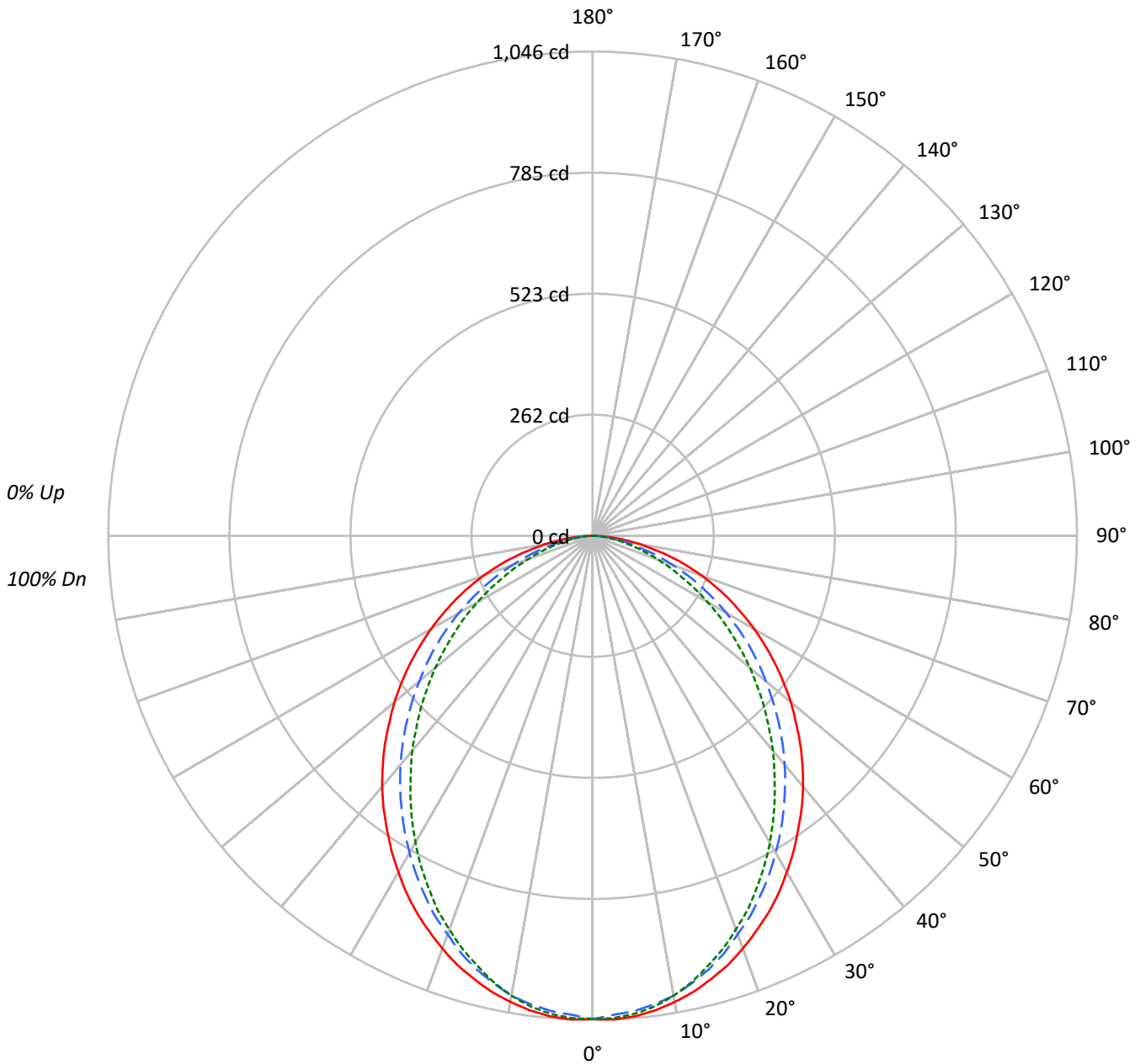
Lumens per Lamp: N/A
Luminaire Lumens: 2466.0 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P888227

CATALOG NUMBER: DPT5-6FO44-85S35-A-XX-UDD

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°	8069	8069	8069
5°	8088	7996	8044
10°	8027	7921	7921
15°	7931	7759	7698
20°	7807	7536	7445
25°	7665	7316	7155
30°	7488	7058	6833
35°	7307	6793	6472
40°	7137	6515	6119
45°	6929	6204	5731
50°	6722	5869	5329
55°	6483	5548	4899
60°	6240	5155	4436
65°	5958	4703	3905
70°	5633	4132	3368
75°	5179	3486	2805
80°	4563	2742	2355
85°	3841	2244	2102



TEST NUMBER: P888227

CATALOG NUMBER: DPT5-6FO44-85S35-A-XX-UDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	4.0
10°-20°	274.5	11.1
20°-30°	398.1	16.1
30°-40°	453.5	18.4
40°-50°	442.0	17.9
50°-60°	372.0	15.1
60°-70°	260.7	10.6
70°-80°	133.6	5.4
80°-90°	33.3	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°	770.8	31.3
0°-40°	1224.3	49.6
0°-60°	2038.3	82.7
0°-90°	2466.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2466.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1042	1039	1030	1038	1036	99
15°	991	986	970	969	962	279
25°	899	887	858	847	839	414
35°	774	755	720	697	686	485
45°	634	611	568	536	524	489
55°	481	456	412	376	364	430
65°	326	299	257	225	214	322
75°	173	150	117	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°	1043.8	1043.8	1043.8	1043.8	1043.8
2.5°	1046.1	1043.8	1035.9	1043.8	1042.9
5°	1042.2	1039.1	1030.4	1038.1	1036.5
7.5°	1034.3	1031.1	1020.8	1027.1	1025.7
10°	1022.5	1020.1	1009.0	1011.5	1009.0
12.5°	1009.0	1005.8	990.0	991.6	987.8
15°	991.0	986.2	969.5	968.8	961.8
17.5°	972.0	965.0	945.1	941.3	935.7
20°	949.0	941.3	916.0	912.1	905.0
22.5°	923.9	916.0	889.4	880.6	874.9
25°	898.6	886.8	857.7	847.4	838.8
27.5°	870.4	856.0	825.3	812.0	803.4
30°	838.8	823.9	790.7	772.7	765.5
32.5°	807.9	789.9	756.0	735.5	726.2
35°	774.2	755.3	719.8	696.9	685.8
37.5°	741.8	718.9	682.6	656.0	644.7
40°	707.2	683.5	645.6	615.6	606.3
42.5°	670.8	646.3	606.9	578.6	563.6
45°	633.8	611.1	567.5	536.1	524.2
47.5°	595.0	571.6	528.0	495.9	482.4
50°	558.9	532.9	488.0	454.9	443.1
52.5°	519.4	492.8	450.8	414.6	402.7
55°	481.0	455.7	411.6	376.1	363.5
57.5°	441.5	414.6	372.2	337.4	326.4
60°	403.6	376.1	333.4	298.8	286.9
62.5°	363.5	337.4	294.1	262.5	250.6
65°	325.7	298.8	257.1	225.3	213.5
67.5°	287.6	261.0	220.7	190.8	181.5
70°	249.2	222.3	182.8	158.4	149.0
72.5°	211.3	185.3	149.0	126.9	121.5
75°	173.4	149.7	116.7	99.4	93.9
77.5°	134.7	115.8	88.2	75.0	70.2
80°	102.5	83.6	61.6	54.4	52.9
82.5°	70.9	54.4	41.1	38.5	37.9
85°	43.3	29.1	25.3	24.4	23.7
87.5°	18.3	12.6	11.8	11.8	11.0
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)