

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: P888489

Luminaire Tested: **DPT5-6FO44-61S27-F-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: P888489
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: DPT5-6FO44-61S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

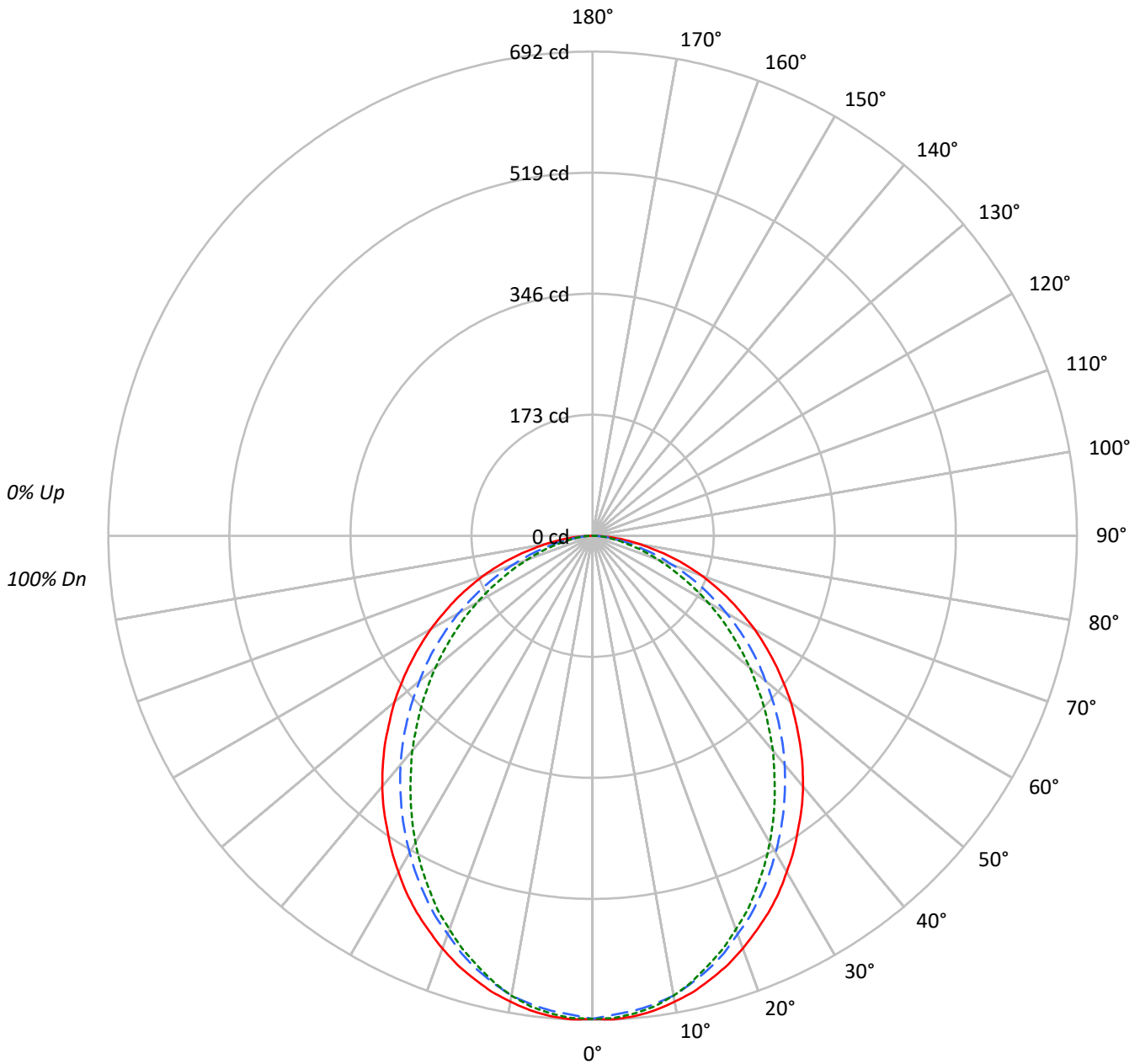
Lumens per Lamp: N/A
Luminaire Lumens: 1631.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

Input Watts (W): 17.8
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: P888489

CATALOG NUMBER: DPT5-6FO44-61S27-F-XX-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P888489

CATALOG NUMBER: DPT5-6FO44-61S27-F-XX-UDD

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°	5337	5337	5337
5°	5349	5289	5320
10°	5308	5239	5239
15°	5246	5132	5091
20°	5164	4984	4925
25°	5069	4838	4732
30°	4953	4669	4520
35°	4832	4492	4281
40°	4720	4309	4047
45°	4583	4104	3790
50°	4446	3881	3525
55°	4287	3670	3240
60°	4127	3409	2935
65°	3940	3110	2583
70°	3725	2733	2229
75°	3426	2306	1855
80°	3018	1812	1558
85°	2537	1481	1393



TEST NUMBER: P888489

CATALOG NUMBER: DPT5-6FO44-61S27-F-XX-UDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	4.0
10°-20°	181.6	11.1
20°-30°	263.3	16.1
30°-40°	300.0	18.4
40°-50°	292.3	17.9
50°-60°	246.0	15.1
60°-70°	172.4	10.6
70°-80°	88.4	5.4
80°-90°	22.0	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°	509.8	31.3
0°-40°	809.8	49.6
0°-60°	1348.2	82.7
0°-90°	1631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1631.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	689	687	682	687	686	65
15°	656	652	641	641	636	185
25°	594	586	567	560	555	274
35°	512	500	476	461	454	321
45°	419	404	375	355	347	323
55°	318	301	272	249	240	284
65°	215	198	170	149	141	213
75°	115	99	77	66	62	121
85°	29	19	17	16	16	33
90°	0	0	0	0	0	



TEST NUMBER: P888489

CATALOG NUMBER: DPT5-6FO44-61S27-F-XX-UDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	690.4	690.4	690.4	690.4	690.4
2.5°	691.9	690.4	685.1	690.4	689.8
5°	689.3	687.3	681.5	686.6	685.5
7.5°	684.1	682.0	675.2	679.3	678.4
10°	676.2	674.7	667.4	669.0	667.4
12.5°	667.4	665.2	654.8	655.8	653.3
15°	655.5	652.3	641.2	640.8	636.1
17.5°	642.9	638.2	625.1	622.6	618.9
20°	627.7	622.6	605.8	603.2	598.6
22.5°	611.1	605.8	588.2	582.4	578.7
25°	594.3	586.5	567.2	560.5	554.8
27.5°	575.7	566.2	545.9	537.1	531.4
30°	554.8	544.9	523.0	511.1	506.3
32.5°	534.4	522.5	500.0	486.5	480.3
35°	512.0	499.5	476.0	461.0	453.6
37.5°	490.6	475.5	451.5	433.9	426.4
40°	467.7	452.1	427.0	407.2	401.0
42.5°	443.6	427.5	401.4	382.7	372.7
45°	419.2	404.2	375.4	354.6	346.7
47.5°	393.5	378.1	349.2	328.0	319.1
50°	369.7	352.4	322.7	300.9	293.1
52.5°	343.5	325.9	298.2	274.2	266.4
55°	318.1	301.4	272.3	248.8	240.4
57.5°	292.0	274.2	246.1	223.1	215.9
60°	266.9	248.8	220.5	197.6	189.8
62.5°	240.4	223.1	194.5	173.6	165.8
65°	215.4	197.6	170.0	149.0	141.2
67.5°	190.2	172.6	145.9	126.2	120.0
70°	164.8	147.0	120.9	104.7	98.6
72.5°	139.8	122.5	98.6	84.0	80.4
75°	114.7	99.0	77.2	65.8	62.1
77.5°	89.1	76.6	58.3	49.6	46.4
80°	67.8	55.3	40.7	36.0	35.0
82.5°	46.9	36.0	27.2	25.4	25.0
85°	28.6	19.2	16.7	16.2	15.7
87.5°	12.1	8.3	7.8	7.8	7.3
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)