

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: P888404

Luminaire Tested: **DPT5-6FO36-109S40-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: P888404
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: DPT5-6FO36-109S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

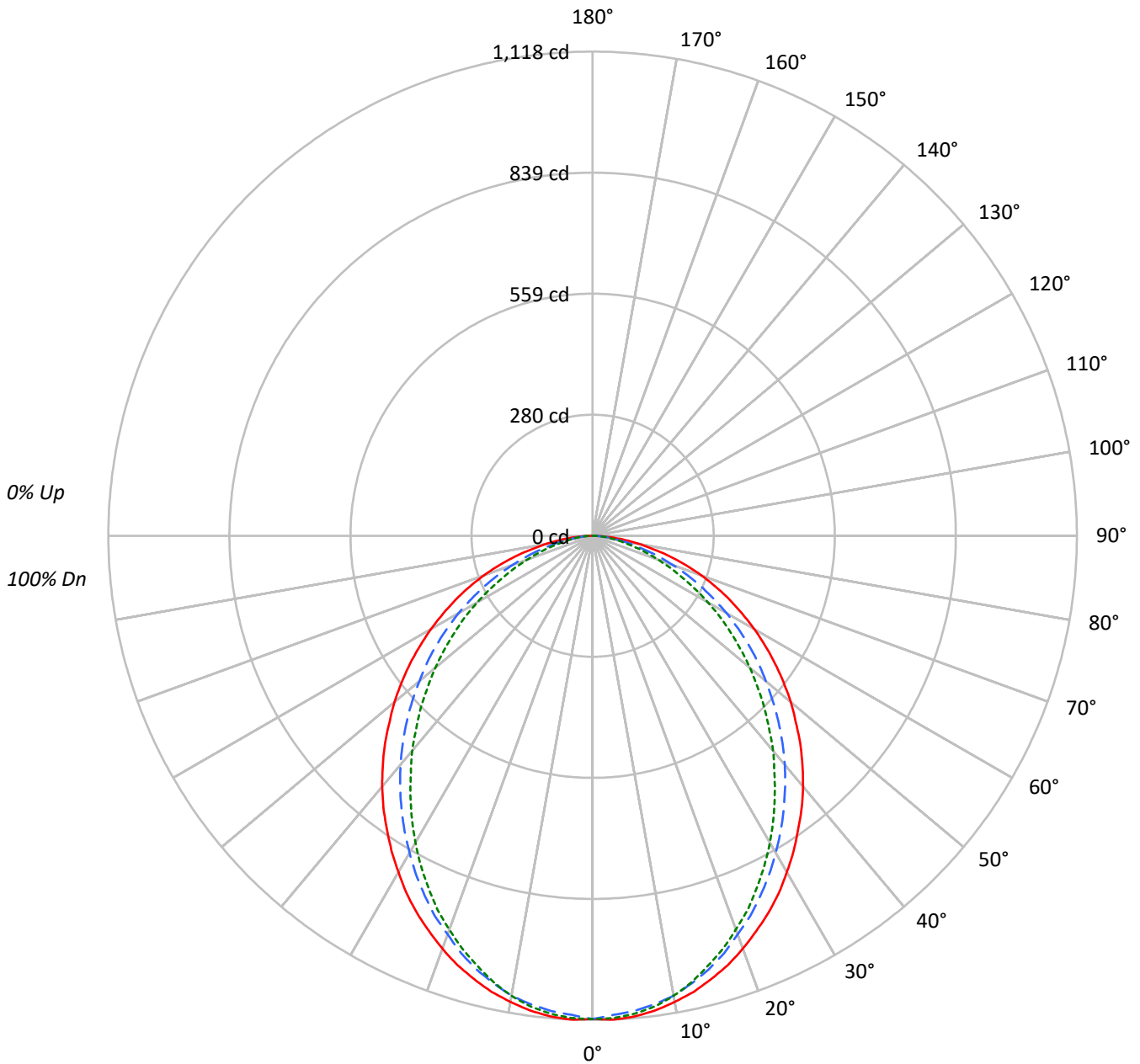
Lumens per Lamp: N/A
Luminaire Lumens: 2636.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')
CIE Type: Direct

Input Watts (W): 25.7
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: P888404

CATALOG NUMBER: DPT5-6FO36-109S40-F-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°	10612	10612	10612
5°	10635	10515	10577
10°	10554	10416	10416
15°	10430	10204	10123
20°	10268	9909	9791
25°	10079	9621	9409
30°	9846	9282	8986
35°	9607	8933	8511
40°	9385	8568	8046
45°	9112	8160	7537
50°	8839	7717	7007
55°	8524	7296	6443
60°	8206	6779	5834
65°	7834	6184	5135
70°	7408	5433	4430
75°	6813	4582	3689
80°	6003	3604	3100
85°	5052	2946	2761



TEST NUMBER: P888404

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.0	4.0
10°-20°	293.4	11.1
20°-30°	425.5	16.1
30°-40°	484.8	18.4
40°-50°	472.5	17.9
50°-60°	397.6	15.1
60°-70°	278.6	10.6
70°-80°	142.9	5.4
80°-90°	35.6	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°	823.9	31.3
0°-40°	1308.7	49.6
0°-60°	2178.8	82.7
0°-90°	2636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2636.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1114	1111	1101	1110	1108	106
15°	1059	1054	1036	1036	1028	299
25°	960	948	917	906	897	442
35°	828	807	769	745	733	518
45°	678	653	607	573	560	522
55°	514	487	440	402	389	460
65°	348	319	275	241	228	345
75°	185	160	125	106	100	196
85°	46	31	27	26	25	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1115.8	1115.8	1115.8	1115.8	1115.8
2.5°	1118.3	1115.8	1107.3	1115.8	1114.8
5°	1114.0	1110.8	1101.4	1109.7	1107.9
7.5°	1105.6	1102.2	1091.2	1097.9	1096.4
10°	1092.9	1090.4	1078.6	1081.2	1078.6
12.5°	1078.6	1075.1	1058.2	1060.0	1055.9
15°	1059.3	1054.2	1036.4	1035.6	1028.1
17.5°	1039.0	1031.5	1010.3	1006.2	1000.2
20°	1014.5	1006.2	979.1	974.9	967.4
22.5°	987.6	979.1	950.7	941.3	935.2
25°	960.5	947.9	916.8	905.8	896.6
27.5°	930.4	915.1	882.2	868.0	858.8
30°	896.6	880.7	845.2	826.0	818.3
32.5°	863.6	844.4	808.1	786.3	776.3
35°	827.5	807.4	769.4	745.0	733.1
37.5°	793.0	768.4	729.7	701.2	689.2
40°	755.9	730.6	690.1	658.1	648.1
42.5°	717.0	690.9	648.7	618.5	602.4
45°	677.5	653.2	606.7	573.0	560.4
47.5°	636.0	611.0	564.4	530.1	515.7
50°	597.4	569.6	521.6	486.3	473.6
52.5°	555.2	526.8	481.9	443.1	430.5
55°	514.1	487.1	440.0	402.0	388.6
57.5°	471.9	443.1	397.8	360.6	348.9
60°	431.4	402.0	356.4	319.3	306.7
62.5°	388.6	360.6	314.3	280.6	267.9
65°	348.1	319.3	274.8	240.9	228.2
67.5°	307.5	279.0	235.9	204.0	194.0
70°	266.4	237.6	195.4	169.3	159.3
72.5°	225.9	198.0	159.3	135.7	129.9
75°	185.4	160.1	124.7	106.3	100.4
77.5°	144.0	123.8	94.3	80.2	75.0
80°	109.6	89.4	65.8	58.1	56.6
82.5°	75.8	58.1	43.9	41.1	40.5
85°	46.3	31.1	27.0	26.1	25.3
87.5°	19.5	13.4	12.7	12.7	11.7
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)