

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: P888402

Luminaire Tested: **DPT5-6FO36-109S30-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: P888402
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: DPT5-6FO36-109S30-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

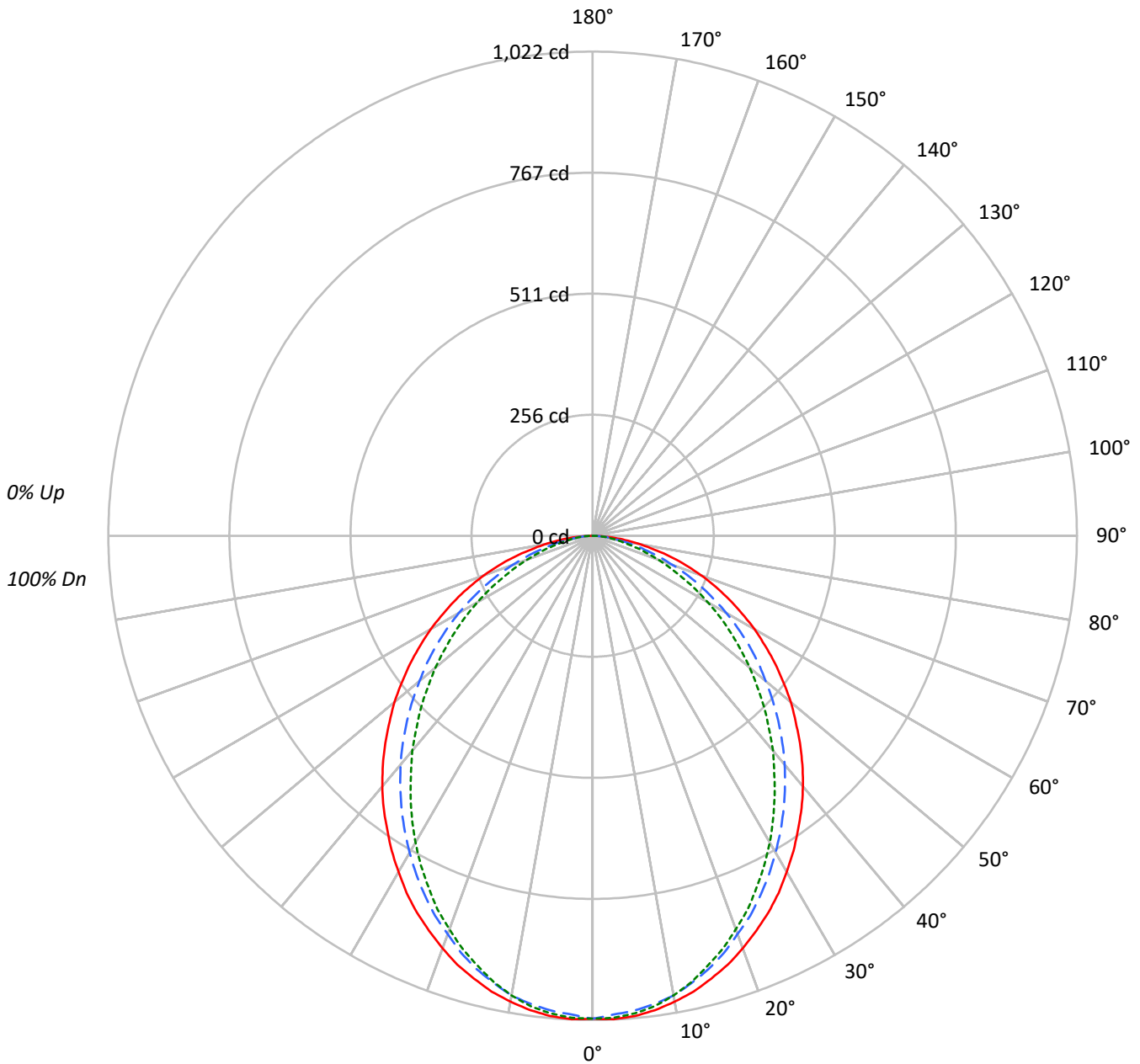
Lumens per Lamp: N/A
Luminaire Lumens: 2408.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')
CIE Type: Direct

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

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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°	9694	9694	9694
5°	9716	9605	9662
10°	9642	9515	9515
15°	9528	9321	9247
20°	9379	9053	8944
25°	9208	8788	8595
30°	8995	8479	8209
35°	8776	8160	7775
40°	8573	7827	7350
45°	8324	7454	6885
50°	8076	7050	6402
55°	7787	6666	5886
60°	7496	6193	5330
65°	7156	5648	4692
70°	6765	4964	4046
75°	6225	4185	3370
80°	5482	3292	2832
85°	4616	2695	2521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	4.0
10°-20°	268.1	11.1
20°-30°	388.7	16.1
30°-40°	442.8	18.4
40°-50°	431.6	17.9
50°-60°	363.2	15.1
60°-70°	254.5	10.6
70°-80°	130.5	5.4
80°-90°	32.6	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°	752.7	31.3
0°-40°	1195.5	49.6
0°-60°	1990.4	82.7
0°-90°	2408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2408.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1018	1015	1006	1014	1012	97
15°	968	963	947	946	939	273
25°	878	866	838	828	819	404
35°	756	738	703	681	670	473
45°	619	597	554	524	512	477
55°	470	445	402	367	355	420
65°	318	292	251	220	208	315
75°	169	146	114	97	92	179
85°	42	28	25	24	23	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1019.3	1019.3	1019.3	1019.3	1019.3
2.5°	1021.5	1019.3	1011.5	1019.3	1018.4
5°	1017.7	1014.7	1006.1	1013.7	1012.1
7.5°	1010.0	1006.8	996.8	1003.0	1001.6
10°	998.4	996.1	985.3	987.7	985.3
12.5°	985.3	982.1	966.7	968.3	964.6
15°	967.7	963.0	946.7	946.0	939.2
17.5°	949.1	942.3	922.9	919.2	913.7
20°	926.7	919.2	894.5	890.6	883.7
22.5°	902.2	894.5	868.5	859.9	854.3
25°	877.5	865.9	837.5	827.5	819.1
27.5°	849.9	835.9	805.9	792.9	784.5
30°	819.1	804.5	772.1	754.5	747.5
32.5°	788.9	771.4	738.2	718.2	709.1
35°	755.9	737.5	702.8	680.6	669.7
37.5°	724.4	702.0	666.6	640.6	629.6
40°	690.5	667.4	630.4	601.2	592.0
42.5°	655.0	631.1	592.6	565.0	550.3
45°	618.9	596.7	554.2	523.5	511.9
47.5°	581.0	558.2	515.6	484.2	471.1
50°	545.8	520.3	476.5	444.2	432.7
52.5°	507.2	481.2	440.2	404.8	393.3
55°	469.6	444.9	402.0	367.3	355.0
57.5°	431.1	404.8	363.4	329.4	318.7
60°	394.1	367.3	325.6	291.7	280.2
62.5°	355.0	329.4	287.2	256.3	244.7
65°	318.0	291.7	251.0	220.0	208.5
67.5°	280.9	254.9	215.5	186.3	177.2
70°	243.3	217.0	178.5	154.6	145.5
72.5°	206.3	180.9	145.5	123.9	118.7
75°	169.4	146.2	113.9	97.1	91.7
77.5°	131.5	113.1	86.1	73.3	68.5
80°	100.1	81.7	60.1	53.1	51.7
82.5°	69.3	53.1	40.1	37.6	37.0
85°	42.3	28.4	24.7	23.8	23.1
87.5°	17.8	12.3	11.6	11.6	10.7
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)