

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: P888401

Luminaire Tested: **DPT5-6FO36-109S27-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: P888401
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: DPT5-6FO36-109S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

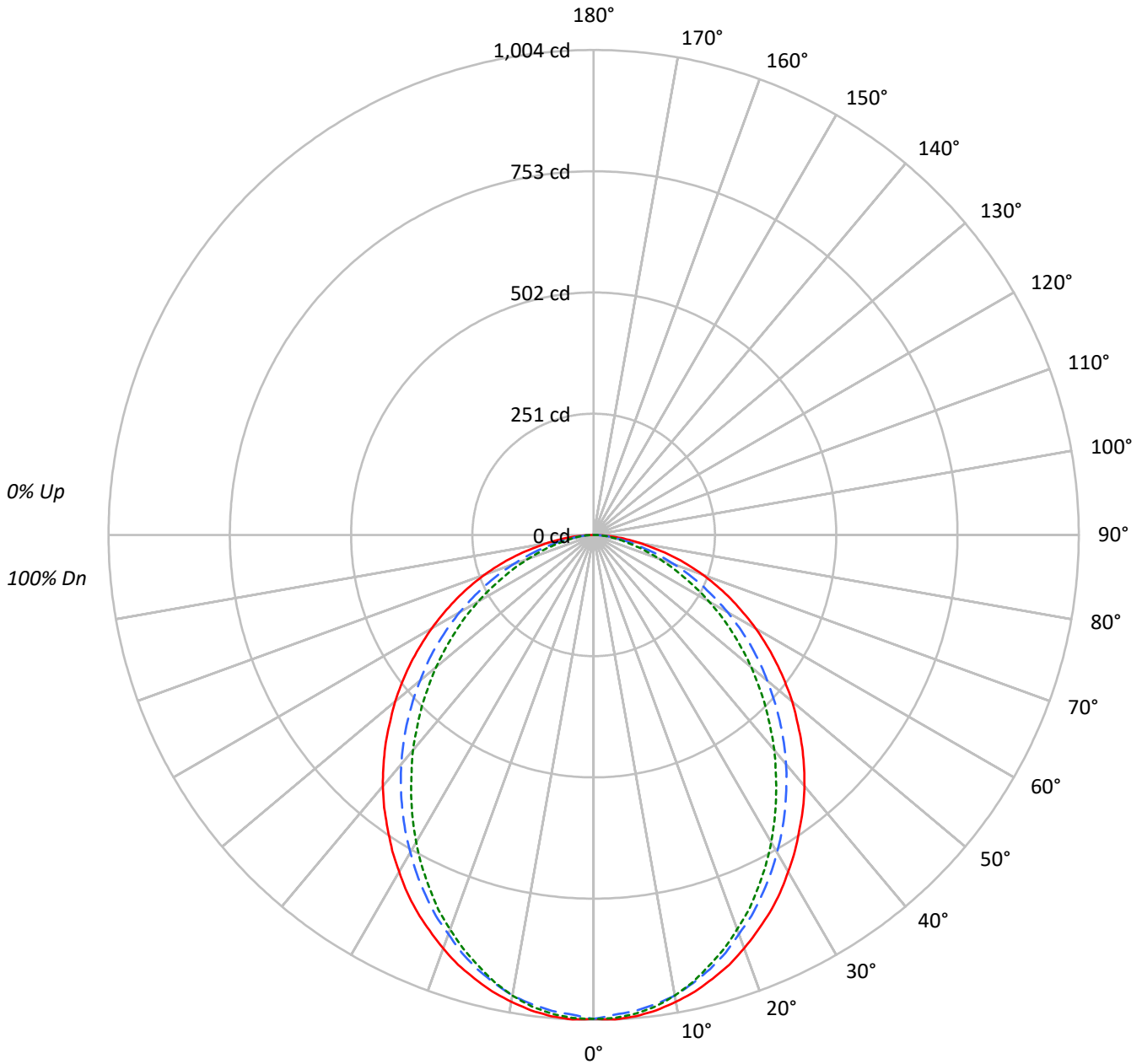
Lumens per Lamp: N/A
Luminaire Lumens: 2367.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.9' x H: 0')
CIE Type: Direct

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°	9529	9529	9529
5°	9551	9442	9498
10°	9478	9353	9353
15°	9366	9163	9090
20°	9219	8898	8792
25°	9051	8638	8449
30°	8841	8334	8069
35°	8628	8022	7643
40°	8427	7694	7224
45°	8182	7326	6768
50°	7938	6930	6293
55°	7656	6551	5785
60°	7369	6087	5238
65°	7035	5554	4611
70°	6651	4880	3976
75°	6118	4116	3311
80°	5389	3237	2782
85°	4529	2652	2477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	4.0
10°-20°	263.5	11.1
20°-30°	382.1	16.1
30°-40°	435.3	18.4
40°-50°	424.3	17.9
50°-60°	357.1	15.1
60°-70°	250.2	10.6
70°-80°	128.3	5.4
80°-90°	32.0	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°	739.9	31.3
0°-40°	1175.2	49.6
0°-60°	1956.5	82.7
0°-90°	2367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1000	997	989	996	995	95
15°	951	947	931	930	923	268
25°	862	851	823	813	805	397
35°	743	725	691	669	658	465
45°	608	587	545	515	503	469
55°	462	437	395	361	349	413
65°	313	287	247	216	205	309
75°	166	144	112	95	90	176
85°	42	28	24	23	23	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.9	1001.9	1001.9	1001.9	1001.9
2.5°	1004.1	1001.9	994.3	1001.9	1001.1
5°	1000.4	997.4	989.0	996.4	994.9
7.5°	992.8	989.7	979.9	985.9	984.5
10°	981.4	979.2	968.5	970.9	968.5
12.5°	968.5	965.4	950.3	951.8	948.1
15°	951.2	946.6	930.6	929.9	923.2
17.5°	933.0	926.2	907.2	903.5	898.2
20°	910.9	903.5	879.2	875.4	868.7
22.5°	886.8	879.2	853.7	845.3	839.8
25°	862.5	851.2	823.2	813.4	805.1
27.5°	835.4	821.7	792.2	779.4	771.1
30°	805.1	790.8	758.9	741.7	734.8
32.5°	775.5	758.2	725.7	706.0	697.0
35°	743.1	725.0	690.9	669.0	658.3
37.5°	712.1	690.0	655.2	629.7	618.9
40°	678.8	656.1	619.7	590.9	581.9
42.5°	643.8	620.4	582.5	555.4	541.0
45°	608.3	586.6	544.7	514.6	503.2
47.5°	571.1	548.7	506.8	476.0	463.1
50°	536.5	511.5	468.4	436.7	425.3
52.5°	498.6	473.0	432.7	397.9	386.6
55°	461.7	437.4	395.1	361.0	348.9
57.5°	423.8	397.9	357.2	323.8	313.3
60°	387.4	361.0	320.0	286.8	275.4
62.5°	348.9	323.8	282.3	251.9	240.6
65°	312.6	286.8	246.8	216.3	204.9
67.5°	276.1	250.5	211.8	183.2	174.2
70°	239.2	213.4	175.5	152.0	143.0
72.5°	202.8	177.8	143.0	121.8	116.6
75°	166.5	143.7	112.0	95.4	90.1
77.5°	129.3	111.2	84.6	72.0	67.4
80°	98.4	80.3	59.1	52.2	50.8
82.5°	68.1	52.2	39.4	36.9	36.4
85°	41.5	27.9	24.3	23.4	22.7
87.5°	17.5	12.1	11.4	11.4	10.5
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)