

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: P888238

Luminaire Tested: **DPT5-6FO55-109S35-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: P888238
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: DPT5-6FO55-109S35-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

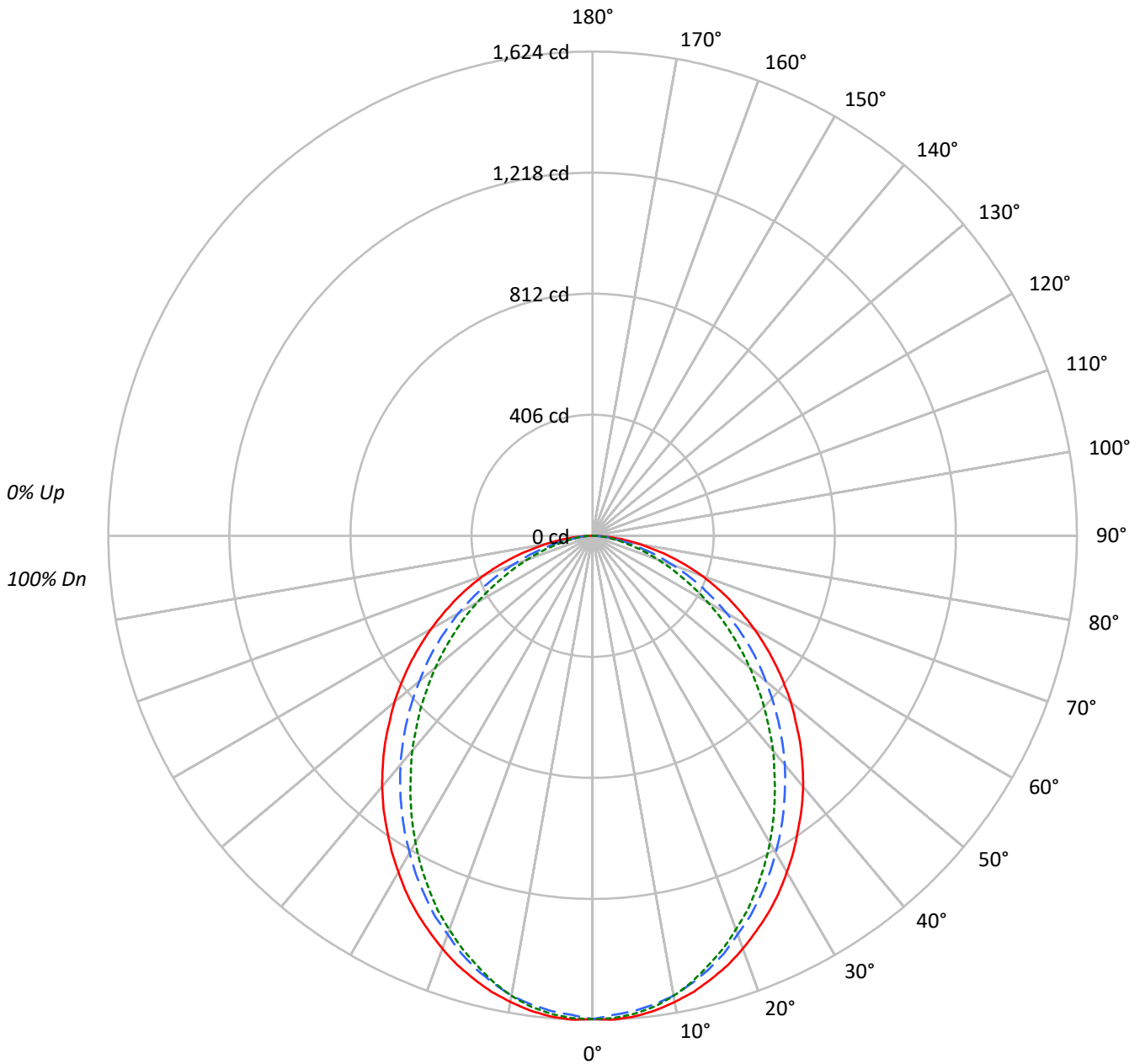
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3829.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 4.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 38.6
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°	10350	10350	10350
5°	10374	10256	10317
10°	10295	10160	10160
15°	10174	9953	9874
20°	10015	9666	9551
25°	9832	9384	9177
30°	9604	9053	8765
35°	9371	8713	8302
40°	9155	8358	7848
45°	8888	7959	7352
50°	8622	7528	6836
55°	8315	7117	6285
60°	8005	6612	5690
65°	7642	6032	5009
70°	7224	5299	4321
75°	6645	4471	3598
80°	5855	3516	3023
85°	4924	2880	2697



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	4.0
10°-20°	426.3	11.1
20°-30°	618.1	16.1
30°-40°	704.2	18.4
40°-50°	686.3	17.9
50°-60°	577.6	15.1
60°-70°	404.8	10.6
70°-80°	207.5	5.4
80°-90°	51.8	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°	1196.9	31.3
0°-40°	1901.0	49.6
0°-60°	3165.0	82.7
0°-90°	3829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3829.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1621	1621	1621	1621	1621	
5°	1618	1614	1600	1612	1609	153
15°	1539	1531	1505	1504	1493	434
25°	1395	1377	1332	1316	1302	642
35°	1202	1173	1118	1082	1065	753
45°	984	949	881	832	814	759
55°	747	708	639	584	564	668
65°	506	464	399	350	332	501
75°	269	232	181	154	146	285
85°	67	45	39	38	37	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1620.7	1620.7	1620.7	1620.7	1620.7
2.5°	1624.4	1620.7	1608.5	1620.7	1619.4
5°	1618.2	1613.5	1599.8	1611.9	1609.4
7.5°	1606.0	1601.0	1585.1	1594.9	1592.6
10°	1587.6	1584.0	1566.7	1570.6	1566.7
12.5°	1566.7	1561.7	1537.2	1539.7	1533.8
15°	1538.8	1531.3	1505.4	1504.3	1493.4
17.5°	1509.3	1498.4	1467.5	1461.6	1452.9
20°	1473.6	1461.6	1422.3	1416.2	1405.3
22.5°	1434.6	1422.3	1381.0	1367.3	1358.5
25°	1395.3	1376.9	1331.7	1315.8	1302.4
27.5°	1351.4	1329.2	1281.5	1260.9	1247.5
30°	1302.4	1279.2	1227.7	1199.8	1188.6
32.5°	1254.5	1226.6	1173.9	1142.1	1127.6
35°	1202.0	1172.8	1117.6	1082.2	1064.9
37.5°	1151.9	1116.2	1059.9	1018.6	1001.1
40°	1098.1	1061.3	1002.5	955.9	941.4
42.5°	1041.5	1003.6	942.3	898.5	875.1
45°	984.1	948.9	881.2	832.4	814.0
47.5°	923.9	887.6	819.9	770.0	749.1
50°	867.8	827.4	757.7	706.4	688.0
52.5°	806.5	765.2	700.0	643.7	625.3
55°	746.8	707.5	639.2	584.0	564.5
57.5°	685.5	643.7	577.9	523.8	506.8
60°	626.7	584.0	517.7	463.9	445.5
62.5°	564.5	523.8	456.6	407.6	389.2
65°	505.7	463.9	399.2	349.9	331.5
67.5°	446.6	405.3	342.6	296.3	281.8
70°	386.9	345.1	283.8	245.9	231.4
72.5°	328.1	287.7	231.4	197.1	188.7
75°	269.3	232.5	181.2	154.4	145.8
77.5°	209.1	179.8	136.9	116.5	109.0
80°	159.2	129.9	95.6	84.5	82.2
82.5°	110.1	84.5	63.8	59.7	58.8
85°	67.2	45.2	39.3	37.9	36.8
87.5°	28.4	19.5	18.4	18.4	17.0
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)