

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: P888199

Luminaire Tested: **DPT5-6FO44-127V60-A-XX-UDD_4000K**

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: P888199
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: DPT5-6FO44-127V60-A-XX-UDD_4000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

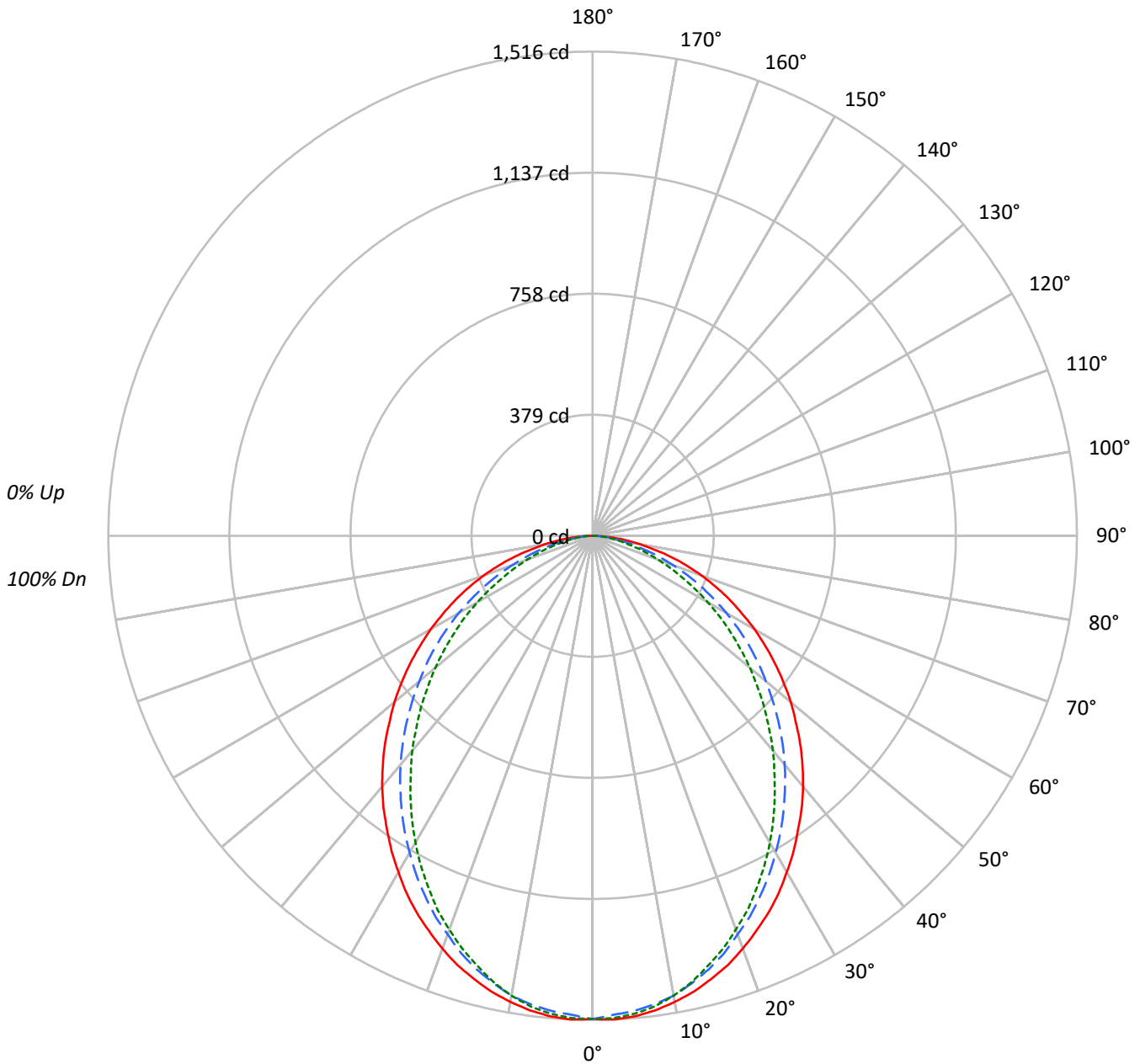
Lumens per Lamp: N/A
Luminaire Lumens: 3574.0 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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°	11695	11695	11695
5°	11722	11588	11658
10°	11633	11480	11480
15°	11495	11246	11156
20°	11316	10922	10791
25°	11109	10603	10370
30°	10852	10229	9904
35°	10589	9845	9381
40°	10343	9443	8868
45°	10042	8992	8307
50°	9742	8505	7724
55°	9396	8041	7102
60°	9043	7471	6429
65°	8634	6816	5660
70°	8162	5988	4882
75°	7509	5051	4065
80°	6616	3971	3415
85°	5562	3255	3042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	4.0
10°-20°	397.9	11.1
20°-30°	576.9	16.1
30°-40°	657.3	18.4
40°-50°	640.6	17.9
50°-60°	539.1	15.1
60°-70°	377.8	10.6
70°-80°	193.7	5.4
80°-90°	48.3	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°	1117.1	31.3
0°-40°	1774.4	49.6
0°-60°	2954.2	82.7
0°-90°	3574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1510	1506	1493	1504	1502	143
15°	1436	1429	1405	1404	1394	405
25°	1302	1285	1243	1228	1216	599
35°	1122	1095	1043	1010	994	703
45°	918	886	822	777	760	708
55°	697	660	597	545	527	623
65°	472	433	373	327	309	467
75°	251	217	169	144	136	266
85°	63	42	37	35	34	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1512.8	1512.8	1512.8	1512.8	1512.8
2.5°	1516.2	1512.8	1501.4	1512.8	1511.5
5°	1510.5	1506.0	1493.3	1504.5	1502.2
7.5°	1499.0	1494.4	1479.5	1488.6	1486.5
10°	1481.9	1478.5	1462.4	1466.0	1462.4
12.5°	1462.4	1457.7	1434.8	1437.1	1431.6
15°	1436.3	1429.3	1405.1	1404.1	1393.9
17.5°	1408.7	1398.6	1369.7	1364.2	1356.2
20°	1375.5	1364.2	1327.6	1321.8	1311.7
22.5°	1339.0	1327.6	1289.0	1276.3	1268.0
25°	1302.3	1285.2	1243.0	1228.2	1215.7
27.5°	1261.4	1240.7	1196.2	1176.9	1164.4
30°	1215.7	1194.0	1145.9	1119.9	1109.5
32.5°	1170.9	1144.9	1095.7	1066.0	1052.5
35°	1122.0	1094.7	1043.2	1010.1	994.0
37.5°	1075.2	1041.9	989.3	950.7	934.4
40°	1024.9	990.6	935.7	892.3	878.7
42.5°	972.2	936.8	879.5	838.6	816.8
45°	918.5	885.7	822.5	777.0	759.8
47.5°	862.4	828.5	765.3	718.7	699.2
50°	810.0	772.3	707.2	659.3	642.2
52.5°	752.8	714.2	653.4	600.8	583.7
55°	697.1	660.4	596.6	545.1	526.9
57.5°	639.8	600.8	539.4	488.9	473.0
60°	584.9	545.1	483.2	433.0	415.8
62.5°	526.9	488.9	426.2	380.4	363.3
65°	472.0	433.0	372.6	326.6	309.4
67.5°	416.9	378.3	319.8	276.6	263.0
70°	361.1	322.1	264.9	229.5	216.0
72.5°	306.2	268.5	216.0	184.0	176.1
75°	251.4	217.0	169.1	144.1	136.1
77.5°	195.2	167.9	127.8	108.7	101.7
80°	148.6	121.2	89.2	78.8	76.7
82.5°	102.8	78.8	59.6	55.7	54.9
85°	62.7	42.2	36.7	35.4	34.3
87.5°	26.5	18.2	17.2	17.2	15.9
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)