

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: P888186

Luminaire Tested: **DPT5-6FO44-109V60-A-XX-UDD_3000K**

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: P888186
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: DPT5-6FO44-109V60-A-XX-UDD_3000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

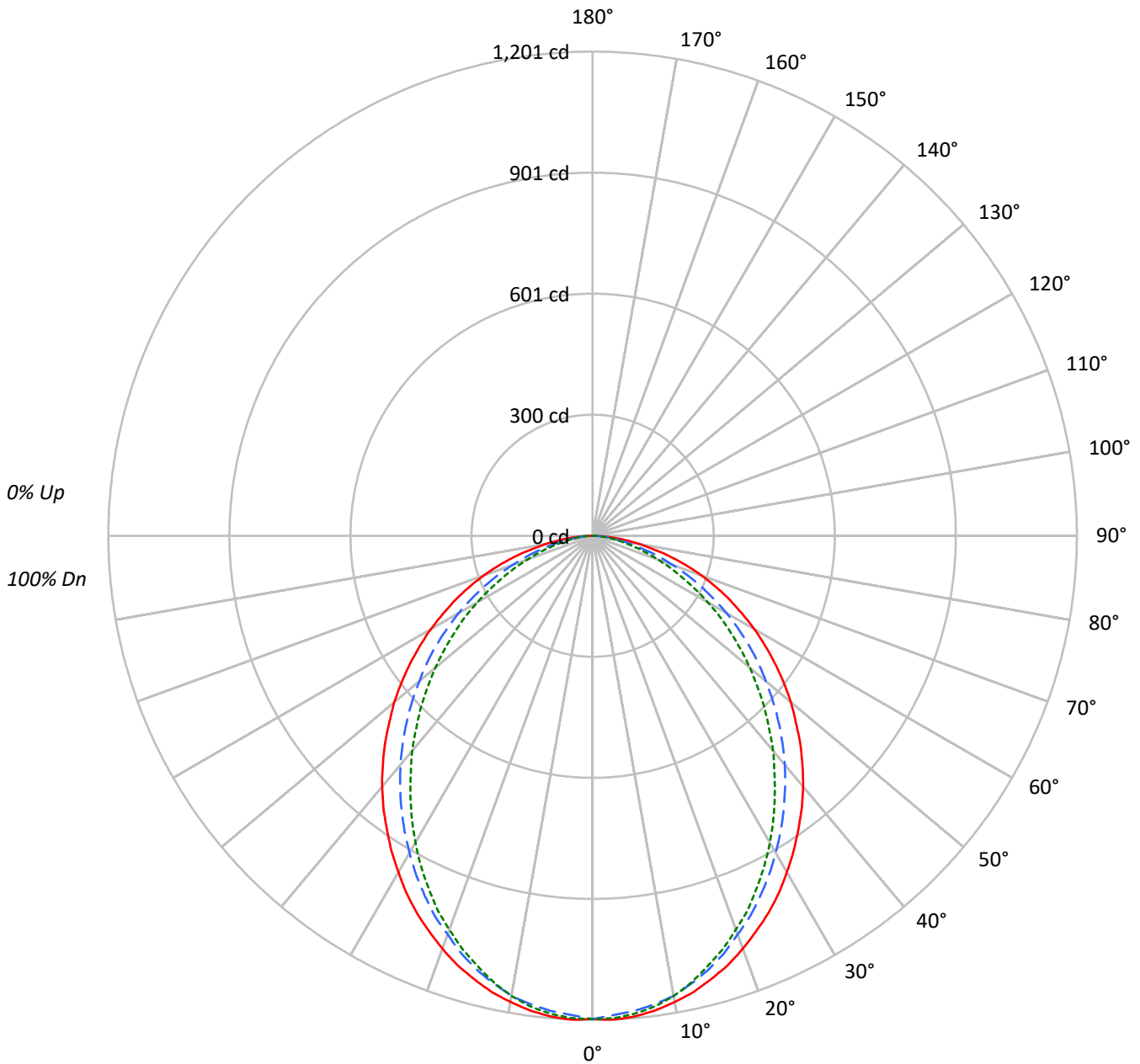
Lumens per Lamp: N/A
Luminaire Lumens: 2832.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 31.8
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°	9267	9267	9267
5°	9288	9183	9237
10°	9218	9097	9097
15°	9109	8911	8840
20°	8967	8655	8551
25°	8803	8401	8217
30°	8599	8105	7848
35°	8391	7801	7433
40°	8196	7482	7027
45°	7957	7126	6583
50°	7720	6740	6119
55°	7444	6371	5627
60°	7166	5920	5095
65°	6841	5400	4485
70°	6469	4744	3867
75°	5950	4003	3220
80°	5240	3148	2707
85°	4408	2581	2413



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	4.0
10°-20°	315.3	11.1
20°-30°	457.1	16.1
30°-40°	520.8	18.4
40°-50°	507.6	17.9
50°-60°	427.2	15.1
60°-70°	299.4	10.6
70°-80°	153.5	5.4
80°-90°	38.3	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°	885.2	31.3
0°-40°	1406.0	49.6
0°-60°	2340.9	82.7
0°-90°	2832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1197	1193	1183	1192	1190	114
15°	1138	1133	1113	1113	1104	321
25°	1032	1018	985	973	963	475
35°	889	867	827	800	788	557
45°	728	702	652	616	602	561
55°	552	523	473	432	418	494
65°	374	343	295	259	245	370
75°	199	172	134	114	108	211
85°	50	33	29	28	27	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.7	1198.7	1198.7	1198.7	1198.7
2.5°	1201.4	1198.7	1189.7	1198.7	1197.7
5°	1196.9	1193.4	1183.3	1192.2	1190.3
7.5°	1187.8	1184.1	1172.4	1179.6	1177.9
10°	1174.2	1171.5	1158.8	1161.6	1158.8
12.5°	1158.8	1155.1	1136.9	1138.8	1134.4
15°	1138.1	1132.6	1113.4	1112.6	1104.5
17.5°	1116.3	1108.2	1085.4	1081.0	1074.6
20°	1089.9	1081.0	1052.0	1047.4	1039.4
22.5°	1061.0	1052.0	1021.4	1011.3	1004.8
25°	1032.0	1018.4	984.9	973.2	963.3
27.5°	999.6	983.1	947.8	932.5	922.6
30°	963.3	946.2	908.0	887.4	879.1
32.5°	927.8	907.2	868.2	844.7	834.0
35°	889.1	867.4	826.6	800.4	787.6
37.5°	851.9	825.6	783.9	753.4	740.4
40°	812.1	784.9	741.4	707.0	696.3
42.5°	770.3	742.3	696.9	664.5	647.2
45°	727.8	701.8	651.8	615.7	602.1
47.5°	683.3	656.5	606.4	569.5	554.0
50°	641.9	612.0	560.4	522.4	508.8
52.5°	596.5	565.9	517.7	476.1	462.5
55°	552.3	523.3	472.7	431.9	417.5
57.5°	507.0	476.1	427.4	387.4	374.8
60°	463.5	431.9	382.9	343.1	329.5
62.5°	417.5	387.4	337.7	301.4	287.8
65°	374.0	343.1	295.2	258.8	245.2
67.5°	330.3	299.8	253.4	219.2	208.4
70°	286.2	255.3	209.9	181.9	171.1
72.5°	242.7	212.8	171.1	145.8	139.6
75°	199.2	172.0	134.0	114.2	107.8
77.5°	154.7	133.0	101.3	86.2	80.6
80°	117.7	96.1	70.7	62.5	60.8
82.5°	81.4	62.5	47.2	44.2	43.5
85°	49.7	33.4	29.1	28.0	27.2
87.5°	21.0	14.4	13.6	13.6	12.6
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)