

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: P888463

Luminaire Tested: **DPT5-6FO44-109V60-F-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: P888463
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-F-XX-UDD_4000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

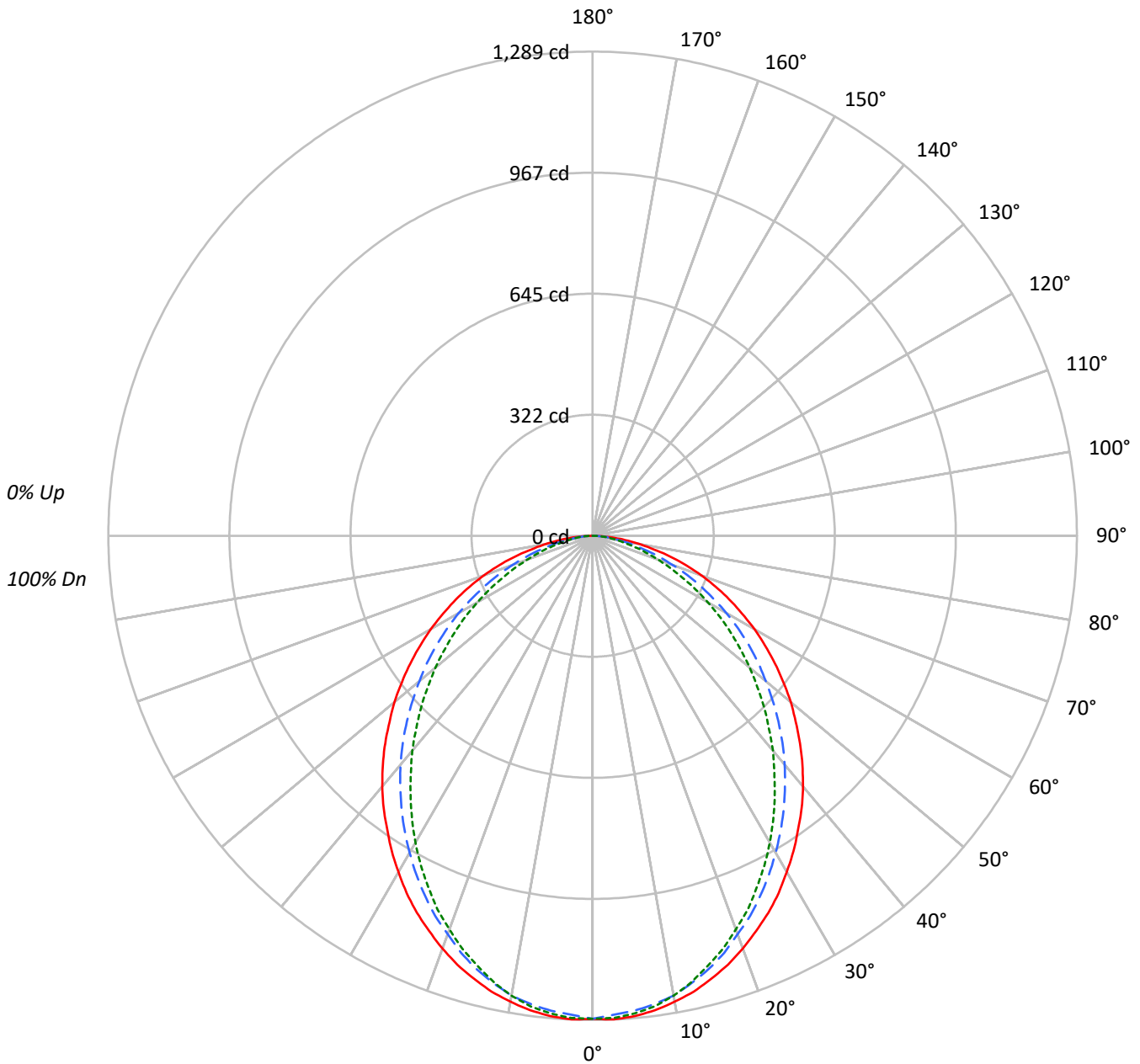
Lumens per Lamp: N/A
Luminaire Lumens: 3038.0 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.56' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P888463

CATALOG NUMBER: DPT5-6FO44-109V60-F-XX-UDD_4000K

Luminous Intensity Polar Plot





TEST NUMBER: P888463

CATALOG NUMBER: DPT5-6FO44-109V60-F-XX-UDD_4000K

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°	9941	9941	9941
5°	9963	9851	9909
10°	9888	9758	9758
15°	9771	9559	9483
20°	9619	9284	9173
25°	9443	9013	8815
30°	9225	8696	8419
35°	9001	8368	7974
40°	8792	8027	7538
45°	8536	7644	7061
50°	8281	7231	6566
55°	7986	6835	6037
60°	7688	6350	5466
65°	7339	5793	4811
70°	6939	5090	4150
75°	6383	4295	3456
80°	5623	3375	2903
85°	4728	2767	2590



TEST NUMBER: P888463

CATALOG NUMBER: DPT5-6FO44-109V60-F-XX-UDD_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	4.0
10°-20°	338.2	11.1
20°-30°	490.4	16.1
30°-40°	558.7	18.4
40°-50°	544.5	17.9
50°-60°	458.3	15.1
60°-70°	321.2	10.6
70°-80°	164.7	5.4
80°-90°	41.1	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°	949.6	31.3
0°-40°	1508.3	49.6
0°-60°	2511.1	82.7
0°-90°	3038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1286	1286	1286	1286	1286	
5°	1284	1280	1269	1279	1277	122
15°	1221	1215	1194	1194	1185	344
25°	1107	1092	1057	1044	1033	510
35°	954	930	887	859	845	597
45°	781	753	699	660	646	602
55°	592	561	507	463	448	530
65°	401	368	317	278	263	397
75°	214	184	144	122	116	226
85°	53	36	31	30	29	62
90°	0	0	0	0	0	



TEST NUMBER: P888463

CATALOG NUMBER: DPT5-6FO44-109V60-F-XX-UDD_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1285.9	1285.9	1285.9	1285.9	1285.9
2.5°	1288.8	1285.9	1276.2	1285.9	1284.8
5°	1283.9	1280.2	1269.4	1278.9	1276.9
7.5°	1274.2	1270.3	1257.6	1265.4	1263.6
10°	1259.6	1256.7	1243.0	1246.1	1243.0
12.5°	1243.0	1239.1	1219.6	1221.6	1216.9
15°	1220.9	1214.9	1194.4	1193.5	1184.9
17.5°	1197.5	1188.8	1164.3	1159.6	1152.8
20°	1169.2	1159.6	1128.5	1123.6	1115.0
22.5°	1138.2	1128.5	1095.7	1084.9	1077.8
25°	1107.0	1092.4	1056.6	1044.0	1033.4
27.5°	1072.3	1054.6	1016.8	1000.4	989.8
30°	1033.4	1015.0	974.1	951.9	943.1
32.5°	995.3	973.2	931.4	906.2	894.6
35°	953.7	930.5	886.7	858.6	844.9
37.5°	913.9	885.6	840.9	808.2	794.3
40°	871.2	842.0	795.4	758.4	746.9
42.5°	826.4	796.3	747.6	712.9	694.3
45°	780.8	752.9	699.2	660.4	645.8
47.5°	733.0	704.2	650.5	610.9	594.3
50°	688.5	656.5	601.2	560.5	545.9
52.5°	639.9	607.1	555.4	510.7	496.1
55°	592.5	561.4	507.1	463.4	447.9
57.5°	543.9	510.7	458.5	415.6	402.1
60°	497.2	463.4	410.7	368.1	353.5
62.5°	447.9	415.6	362.3	323.4	308.8
65°	401.2	368.1	316.7	277.6	263.0
67.5°	354.4	321.6	271.8	235.1	223.6
70°	307.0	273.8	225.2	195.1	183.6
72.5°	260.3	228.3	183.6	156.4	149.7
75°	213.7	184.5	143.8	122.5	115.7
77.5°	165.9	142.7	108.6	92.4	86.5
80°	126.3	103.0	75.8	67.0	65.2
82.5°	87.4	67.0	50.6	47.4	46.7
85°	53.3	35.9	31.2	30.1	29.2
87.5°	22.5	15.5	14.6	14.6	13.5
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)