

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: P888180

Luminaire Tested: **DPT5-6FO36-85V60-A-XX-UDD_6500K**

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: P888180
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: DPT5-6FO36-85V60-A-XX-UDD_6500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

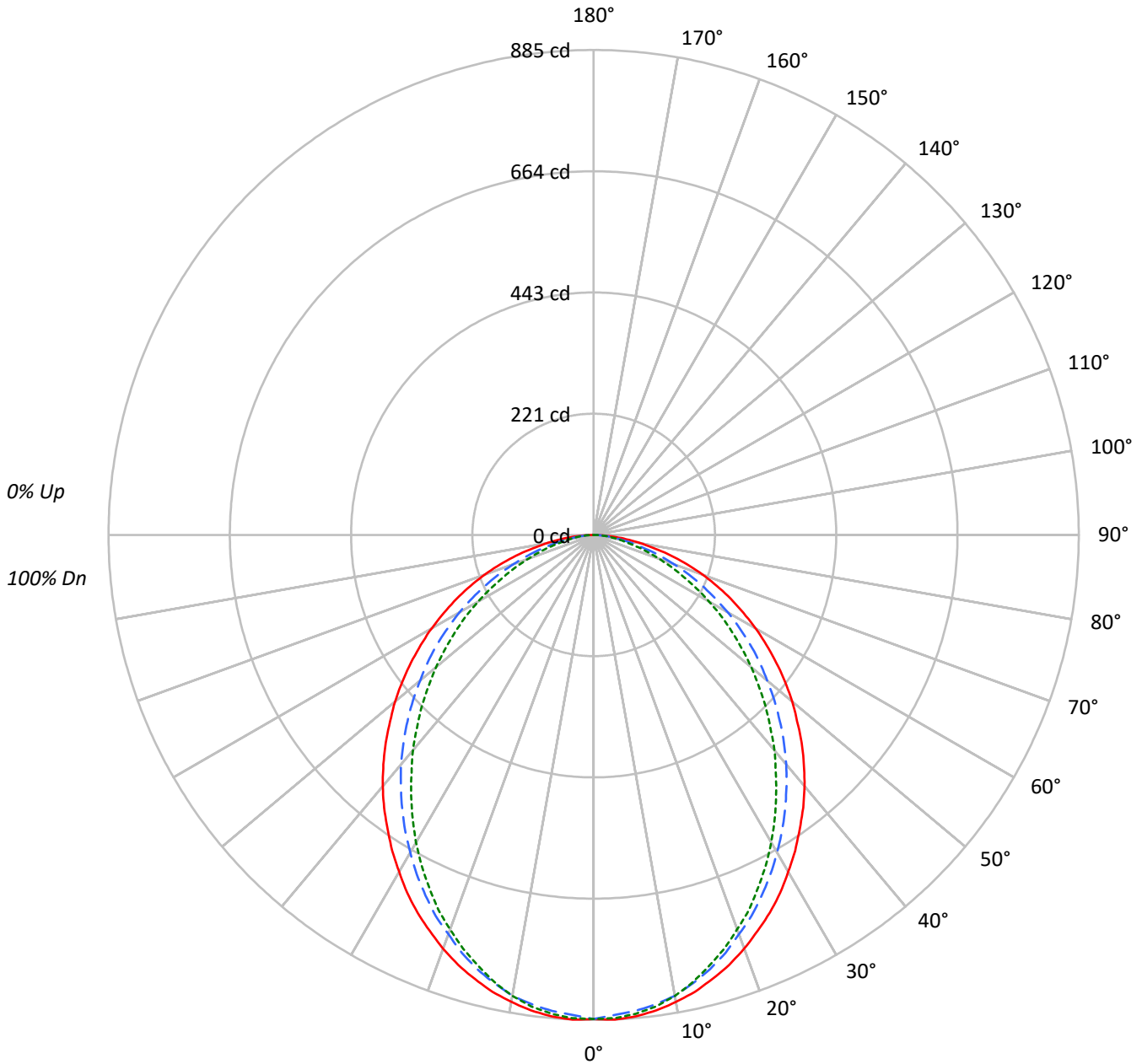
Lumens per Lamp: N/A
Luminaire Lumens: 2087.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.9' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 20.1
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: P888180

CATALOG NUMBER: DPT5-6FO36-85V60-A-XX-UDD_6500K

Luminous Intensity Polar Plot





TEST NUMBER: P888180

CATALOG NUMBER: DPT5-6FO36-85V60-A-XX-UDD_6500K

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°	8402	8402	8402
5°	8420	8325	8375
10°	8356	8246	8246
15°	8258	8079	8015
20°	8129	7846	7752
25°	7980	7616	7449
30°	7796	7349	7115
35°	7607	7072	6739
40°	7430	6784	6370
45°	7215	6460	5968
50°	6998	6111	5548
55°	6749	5777	5102
60°	6498	5368	4618
65°	6202	4897	4066
70°	5864	4302	3506
75°	5394	3630	2921
80°	4754	2853	2454
85°	3994	2335	2182



TEST NUMBER: P888180

CATALOG NUMBER: DPT5-6FO36-85V60-A-XX-UDD_6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.1	4.0
10°-20°	232.3	11.1
20°-30°	336.9	16.1
30°-40°	383.8	18.4
40°-50°	374.1	17.9
50°-60°	314.8	15.1
60°-70°	220.6	10.6
70°-80°	113.1	5.4
80°-90°	28.2	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°	652.3	31.3
0°-40°	1036.1	49.6
0°-60°	1725.1	82.7
0°-90°	2087.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2087.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	883	883	883	883	883	
5°	882	879	872	879	877	84
15°	839	835	820	820	814	236
25°	760	750	726	717	710	350
35°	655	639	609	590	580	410
45°	536	517	480	454	444	414
55°	407	386	348	318	308	364
65°	276	253	218	191	181	273
75°	147	127	99	84	80	155
85°	37	25	21	21	20	42
90°	0	0	0	0	0	



TEST NUMBER: P888180

CATALOG NUMBER: DPT5-6FO36-85V60-A-XX-UDD_6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	883.4	883.4	883.4	883.4	883.4
2.5°	885.4	883.4	876.7	883.4	882.6
5°	882.0	879.4	872.0	878.6	877.2
7.5°	875.3	872.6	864.0	869.3	868.0
10°	865.3	863.3	853.9	856.0	853.9
12.5°	853.9	851.2	837.8	839.2	836.0
15°	838.7	834.6	820.5	819.9	814.0
17.5°	822.6	816.7	799.8	796.6	791.9
20°	803.2	796.6	775.2	771.9	765.9
22.5°	781.9	775.2	752.7	745.3	740.4
25°	760.5	750.5	725.8	717.2	709.9
27.5°	736.6	724.5	698.5	687.2	679.9
30°	709.9	697.3	669.2	653.9	647.9
32.5°	683.8	668.5	639.8	622.5	614.6
35°	655.2	639.2	609.1	589.8	580.4
37.5°	627.8	608.4	577.7	555.2	545.6
40°	598.5	578.4	546.4	521.0	513.1
42.5°	567.7	547.0	513.6	489.7	477.0
45°	536.4	517.2	480.3	453.7	443.7
47.5°	503.6	483.8	446.9	419.7	408.3
50°	473.0	451.0	413.0	385.0	375.0
52.5°	439.6	417.1	381.5	350.9	340.8
55°	407.0	385.6	348.4	318.3	307.7
57.5°	373.6	350.9	315.0	285.5	276.2
60°	341.6	318.3	282.2	252.8	242.8
62.5°	307.7	285.5	248.9	222.1	212.1
65°	275.6	252.8	217.6	190.7	180.7
67.5°	243.4	220.9	186.8	161.5	153.6
70°	210.9	188.1	154.7	134.0	126.1
72.5°	178.8	156.8	126.1	107.4	102.8
75°	146.8	126.7	98.8	84.2	79.5
77.5°	114.0	98.0	74.6	63.5	59.4
80°	86.8	70.8	52.1	46.0	44.8
82.5°	60.0	46.0	34.8	32.5	32.1
85°	36.6	24.6	21.4	20.7	20.0
87.5°	15.5	10.6	10.0	10.0	9.3
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)