

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: P888134

Luminaire Tested: **DPT5-6FO36-109V60-A-XX-UDD_4500K**

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: P888134
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: DPT5-6FO36-109V60-A-XX-UDD_4500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

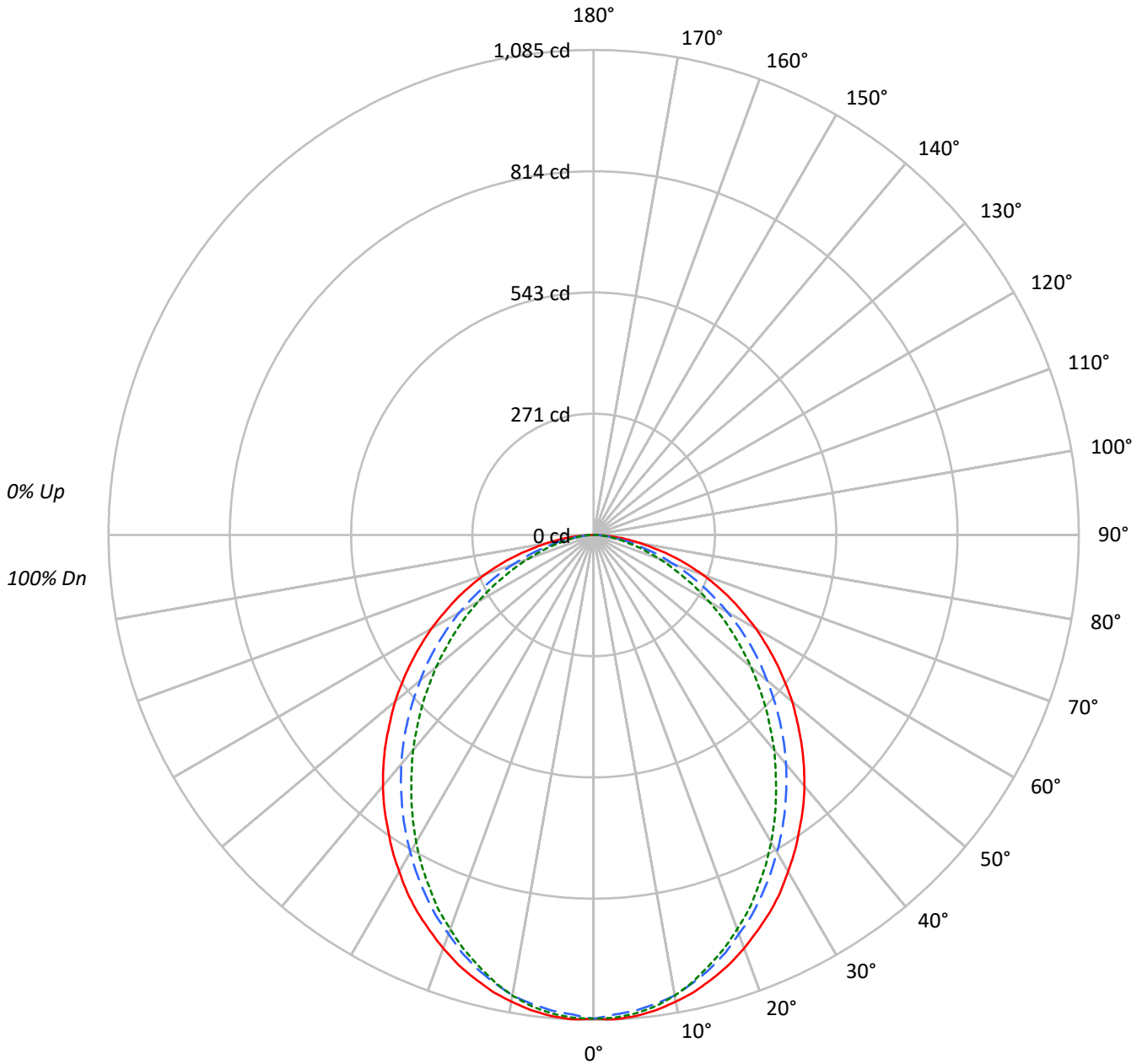
Lumens per Lamp: N/A
Luminaire Lumens: 2557.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.9' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 25.7
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: P888134

CATALOG NUMBER: DPT5-6FO36-109V60-A-XX-UDD_4500K

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°	10293	10293	10293
5°	10317	10200	10260
10°	10239	10103	10103
15°	10118	9898	9819
20°	9960	9613	9497
25°	9778	9332	9126
30°	9551	9004	8717
35°	9320	8665	8256
40°	9104	8311	7805
45°	8839	7915	7311
50°	8574	7487	6797
55°	8269	7077	6249
60°	7960	6576	5659
65°	7600	6000	4982
70°	7185	5269	4296
75°	6607	4446	3575
80°	5822	3494	3007
85°	4900	2859	2684



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	4.0
10°-20°	284.6	11.1
20°-30°	412.7	16.1
30°-40°	470.2	18.4
40°-50°	458.3	17.9
50°-60°	385.7	15.1
60°-70°	270.3	10.6
70°-80°	138.6	5.4
80°-90°	34.6	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°	799.3	31.3
0°-40°	1269.5	49.6
0°-60°	2113.6	82.7
0°-90°	2557.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2557.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1081	1078	1068	1076	1075	102
15°	1028	1023	1005	1004	997	290
25°	932	920	889	879	870	429
35°	803	783	746	723	711	503
45°	657	634	588	556	544	507
55°	499	472	427	390	377	446
65°	338	310	267	234	221	334
75°	180	155	121	103	97	190
85°	45	30	26	25	25	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1082.3	1082.3	1082.3	1082.3	1082.3
2.5°	1084.8	1082.3	1074.1	1082.3	1081.4
5°	1080.7	1077.5	1068.4	1076.4	1074.7
7.5°	1072.5	1069.1	1058.5	1065.0	1063.5
10°	1060.2	1057.8	1046.2	1048.8	1046.2
12.5°	1046.2	1042.9	1026.5	1028.2	1024.3
15°	1027.6	1022.6	1005.3	1004.5	997.3
17.5°	1007.9	1000.6	980.0	976.0	970.3
20°	984.1	976.0	949.8	945.7	938.4
22.5°	958.0	949.8	922.2	913.1	907.2
25°	931.8	919.5	889.3	878.7	869.7
27.5°	902.5	887.6	855.8	842.0	833.0
30°	869.7	854.3	819.9	801.2	793.8
32.5°	837.7	819.1	783.9	762.7	753.0
35°	802.7	783.2	746.3	722.7	711.1
37.5°	769.2	745.4	707.8	680.2	668.5
40°	733.3	708.7	669.4	638.4	628.7
42.5°	695.5	670.2	629.3	600.0	584.4
45°	657.2	633.7	588.5	555.9	543.6
47.5°	617.0	592.7	547.5	514.2	500.2
50°	579.5	552.5	506.0	471.7	459.4
52.5°	538.6	511.0	467.5	429.9	417.6
55°	498.7	472.5	426.8	390.0	376.9
57.5°	457.8	429.9	385.9	349.8	338.4
60°	418.5	390.0	345.7	309.8	297.5
62.5°	376.9	349.8	304.9	272.2	259.9
65°	337.7	309.8	266.6	233.7	221.4
67.5°	298.3	270.7	228.8	197.9	188.2
70°	258.4	230.5	189.5	164.2	154.5
72.5°	219.1	192.1	154.5	131.6	126.0
75°	179.8	155.3	121.0	103.1	97.3
77.5°	139.7	120.1	91.4	77.8	72.8
80°	106.3	86.7	63.8	56.4	54.9
82.5°	73.5	56.4	42.6	39.9	39.3
85°	44.9	30.2	26.2	25.3	24.6
87.5°	19.0	13.0	12.3	12.3	11.4
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)