

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: P888221

Luminaire Tested: **DPT5-6FO44-61V60-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: P888221
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: DPT5-6FO44-61V60-A-XX-UDD_4000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

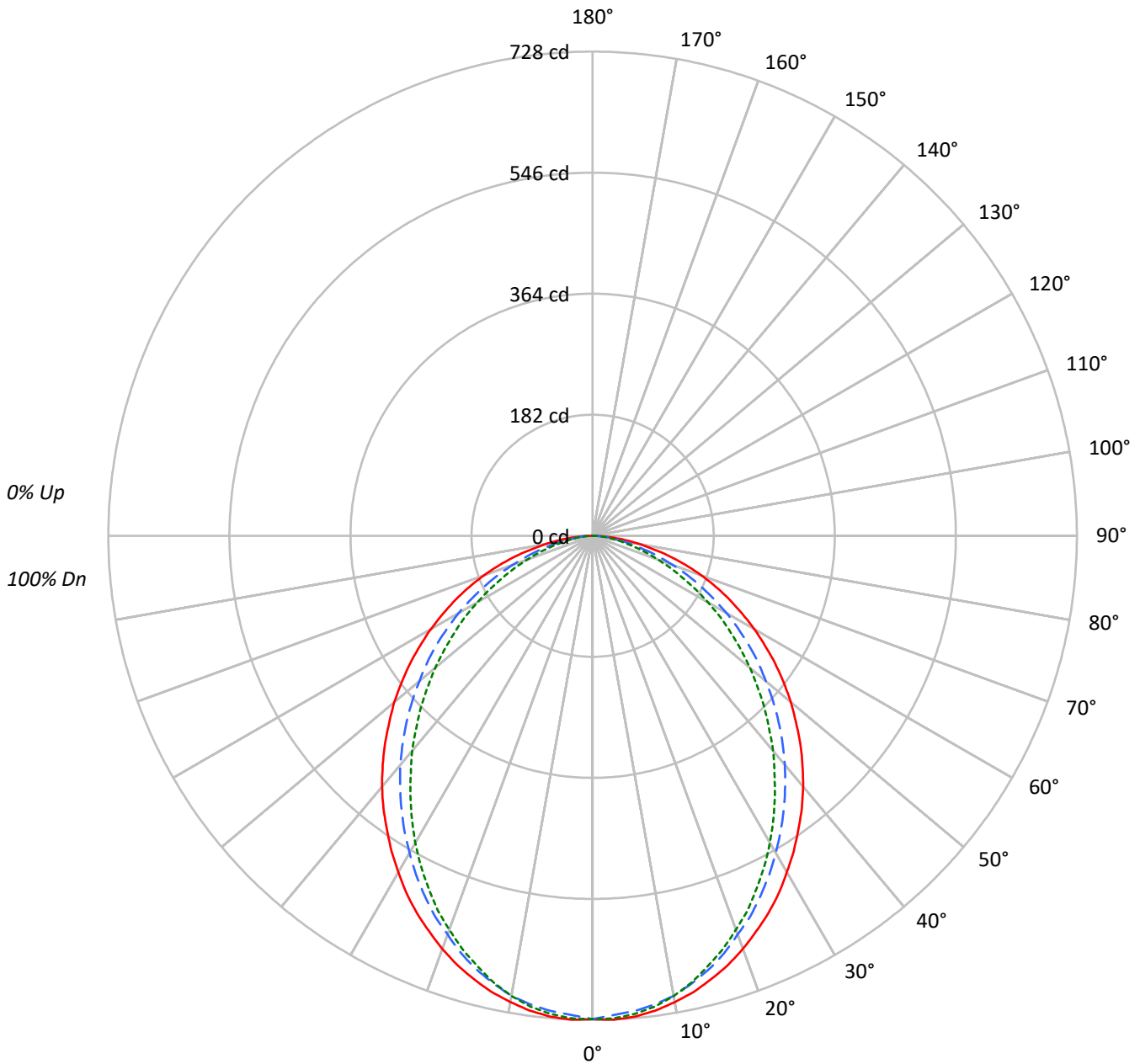
Lumens per Lamp: N/A
Luminaire Lumens: 1717.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 3.56' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 17.8
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°	5619	5619	5619
5°	5632	5567	5601
10°	5588	5515	5515
15°	5522	5402	5360
20°	5436	5247	5184
25°	5337	5094	4982
30°	5213	4914	4758
35°	5087	4729	4506
40°	4969	4536	4260
45°	4825	4321	3991
50°	4680	4087	3710
55°	4514	3863	3411
60°	4345	3589	3089
65°	4147	3274	2720
70°	3922	2877	2346
75°	3608	2428	1953
80°	3179	1910	1643
85°	2670	1561	1464



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	4.0
10°-20°	191.1	11.1
20°-30°	277.2	16.1
30°-40°	315.8	18.4
40°-50°	307.8	17.9
50°-60°	259.0	15.1
60°-70°	181.5	10.6
70°-80°	93.1	5.4
80°-90°	23.2	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°	536.7	31.3
0°-40°	852.4	49.6
0°-60°	1419.2	82.7
0°-90°	1717.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1717.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	726	724	717	723	722	69
15°	690	687	675	674	670	195
25°	626	617	597	590	584	288
35°	539	526	501	485	478	338
45°	441	426	395	373	365	340
55°	335	317	287	262	253	299
65°	227	208	179	157	149	224
75°	121	104	81	69	65	128
85°	30	20	18	17	16	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	726.8	726.8	726.8	726.8	726.8
2.5°	728.4	726.8	721.3	726.8	726.2
5°	725.7	723.5	717.4	722.8	721.7
7.5°	720.2	717.9	710.8	715.2	714.1
10°	711.9	710.3	702.5	704.3	702.5
12.5°	702.5	700.3	689.3	690.4	687.8
15°	690.0	686.7	675.0	674.5	669.7
17.5°	676.8	671.9	658.0	655.4	651.5
20°	660.8	655.4	637.8	635.0	630.1
22.5°	643.3	637.8	619.3	613.1	609.2
25°	625.7	617.4	597.2	590.0	584.0
27.5°	606.0	596.0	574.7	565.4	559.4
30°	584.0	573.6	550.5	538.0	533.0
32.5°	562.5	550.0	526.4	512.1	505.6
35°	539.0	525.9	501.1	485.3	477.5
37.5°	516.5	500.5	475.3	456.8	448.9
40°	492.4	475.9	449.5	428.7	422.1
42.5°	467.0	450.0	422.5	402.9	392.4
45°	441.3	425.5	395.2	373.3	365.0
47.5°	414.3	398.0	367.7	345.3	335.9
50°	389.1	371.0	339.8	316.8	308.5
52.5°	361.7	343.1	313.9	288.7	280.4
55°	334.9	317.3	286.6	261.9	253.1
57.5°	307.4	288.7	259.1	234.9	227.3
60°	281.0	261.9	232.1	208.0	199.8
62.5°	253.1	234.9	204.8	182.8	174.5
65°	226.7	208.0	179.0	156.9	148.7
67.5°	200.3	181.7	153.6	132.9	126.4
70°	173.5	154.8	127.3	110.3	103.8
72.5°	147.1	129.0	103.8	88.4	84.6
75°	120.8	104.3	81.3	69.2	65.4
77.5°	93.8	80.6	61.4	52.2	48.9
80°	71.4	58.2	42.9	37.9	36.9
82.5°	49.4	37.9	28.6	26.8	26.4
85°	30.1	20.3	17.6	17.0	16.5
87.5°	12.7	8.8	8.2	8.2	7.6
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)