

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: P888174

Luminaire Tested: **DPT5-6FO36-85V60-A-XX-UDD_2700K**

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: P888174
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_2700K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

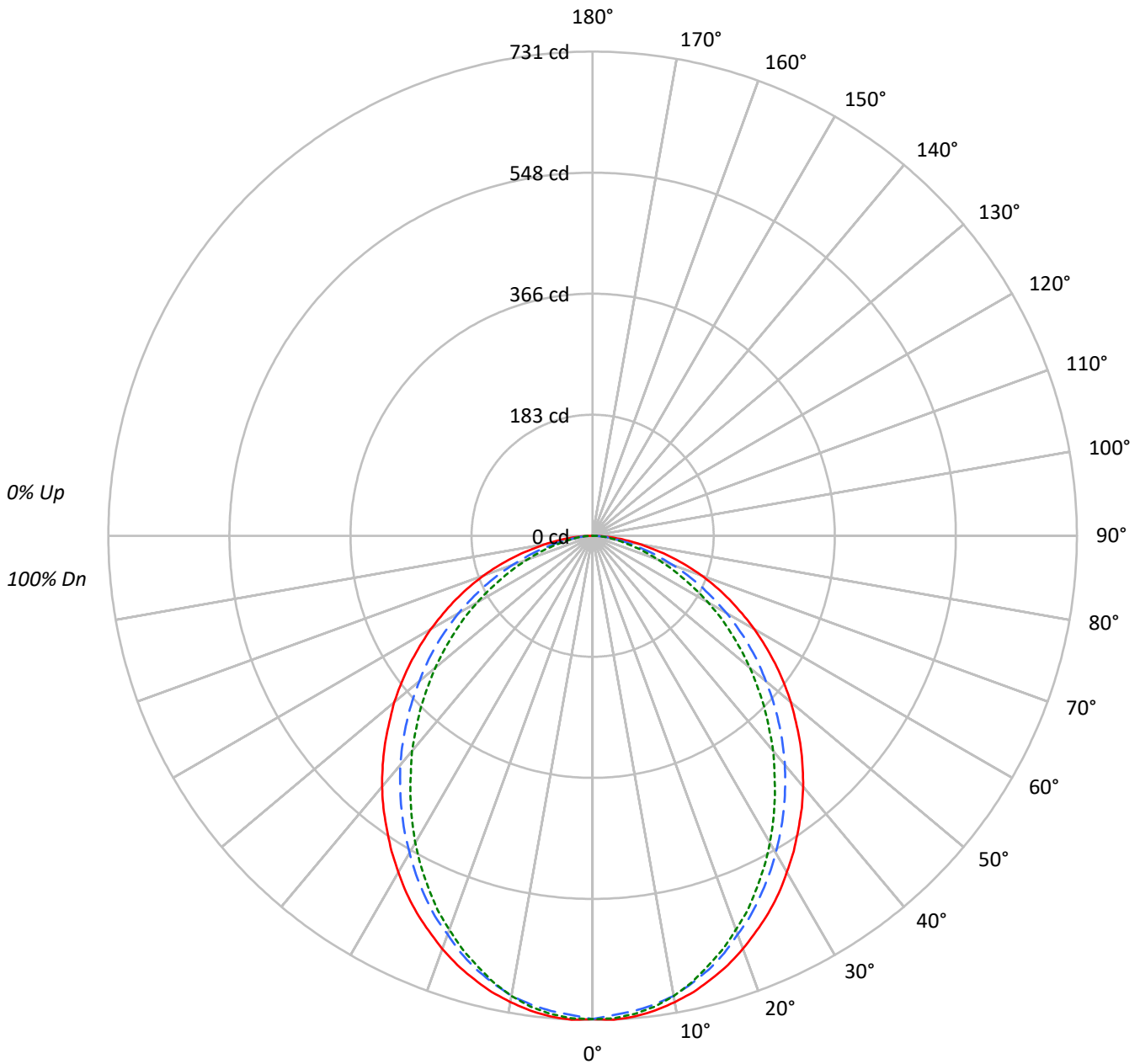
Lumens per Lamp: N/A
Luminaire Lumens: 1724.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.9' x L: 0.39' x H: 0')
CIE Type: Direct

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

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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°	6940	6940	6940
5°	6956	6877	6918
10°	6903	6812	6812
15°	6821	6674	6620
20°	6715	6481	6404
25°	6592	6292	6154
30°	6440	6071	5877
35°	6283	5842	5567
40°	6138	5604	5263
45°	5960	5337	4929
50°	5781	5047	4584
55°	5575	4772	4213
60°	5368	4434	3816
65°	5124	4044	3360
70°	4844	3554	2897
75°	4454	2998	2411
80°	3927	2355	2026
85°	3306	1931	1811



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	4.0
10°-20°	191.9	11.1
20°-30°	278.3	16.1
30°-40°	317.0	18.4
40°-50°	309.0	17.9
50°-60°	260.1	15.1
60°-70°	182.2	10.6
70°-80°	93.4	5.4
80°-90°	23.3	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°	538.9	31.3
0°-40°	855.9	49.6
0°-60°	1425.0	82.7
0°-90°	1724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	730	730	730	730	730	
5°	729	726	720	726	725	69
15°	693	690	678	677	672	195
25°	628	620	600	592	586	289
35°	541	528	503	487	480	339
45°	443	427	397	375	366	342
55°	336	319	288	263	254	301
65°	228	209	180	158	149	225
75°	121	105	82	70	66	128
85°	30	20	18	17	17	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	729.7	729.7	729.7	729.7	729.7
2.5°	731.4	729.7	724.2	729.7	729.1
5°	728.6	726.5	720.3	725.7	724.6
7.5°	723.1	720.8	713.7	718.1	717.1
10°	714.8	713.2	705.4	707.1	705.4
12.5°	705.4	703.2	692.1	693.2	690.6
15°	692.8	689.5	677.8	677.3	672.4
17.5°	679.5	674.6	660.7	658.1	654.2
20°	663.5	658.1	640.4	637.6	632.7
22.5°	645.9	640.4	621.8	615.6	611.7
25°	628.2	619.9	599.6	592.4	586.4
27.5°	608.5	598.5	577.0	567.7	561.7
30°	586.4	576.0	552.8	540.2	535.2
32.5°	564.8	552.3	528.5	514.2	507.7
35°	541.2	528.0	503.2	487.2	479.5
37.5°	518.6	502.6	477.2	458.6	450.7
40°	494.4	477.8	451.4	430.4	423.9
42.5°	468.9	451.9	424.3	404.5	394.0
45°	443.1	427.2	396.8	374.8	366.5
47.5°	416.0	399.6	369.2	346.7	337.3
50°	390.7	372.5	341.1	318.0	309.8
52.5°	363.1	344.5	315.2	289.8	281.5
55°	336.2	318.6	287.8	262.9	254.1
57.5°	308.6	289.8	260.2	235.8	228.2
60°	282.2	262.9	233.1	208.9	200.6
62.5°	254.1	235.8	205.6	183.5	175.2
65°	227.7	208.9	179.7	157.5	149.3
67.5°	201.1	182.5	154.3	133.4	126.9
70°	174.2	155.4	127.8	110.7	104.2
72.5°	147.7	129.5	104.2	88.7	85.0
75°	121.2	104.7	81.6	69.5	65.6
77.5°	94.2	81.0	61.6	52.4	49.1
80°	71.7	58.5	43.0	38.0	37.0
82.5°	49.6	38.0	28.7	26.9	26.5
85°	30.3	20.3	17.7	17.1	16.6
87.5°	12.8	8.8	8.3	8.3	7.7
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)