

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: P888122

Luminaire Tested: **DPT5-4F029-85V60-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: P888122
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: DPT5-4F029-85V60-A-XX-UDD_4000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

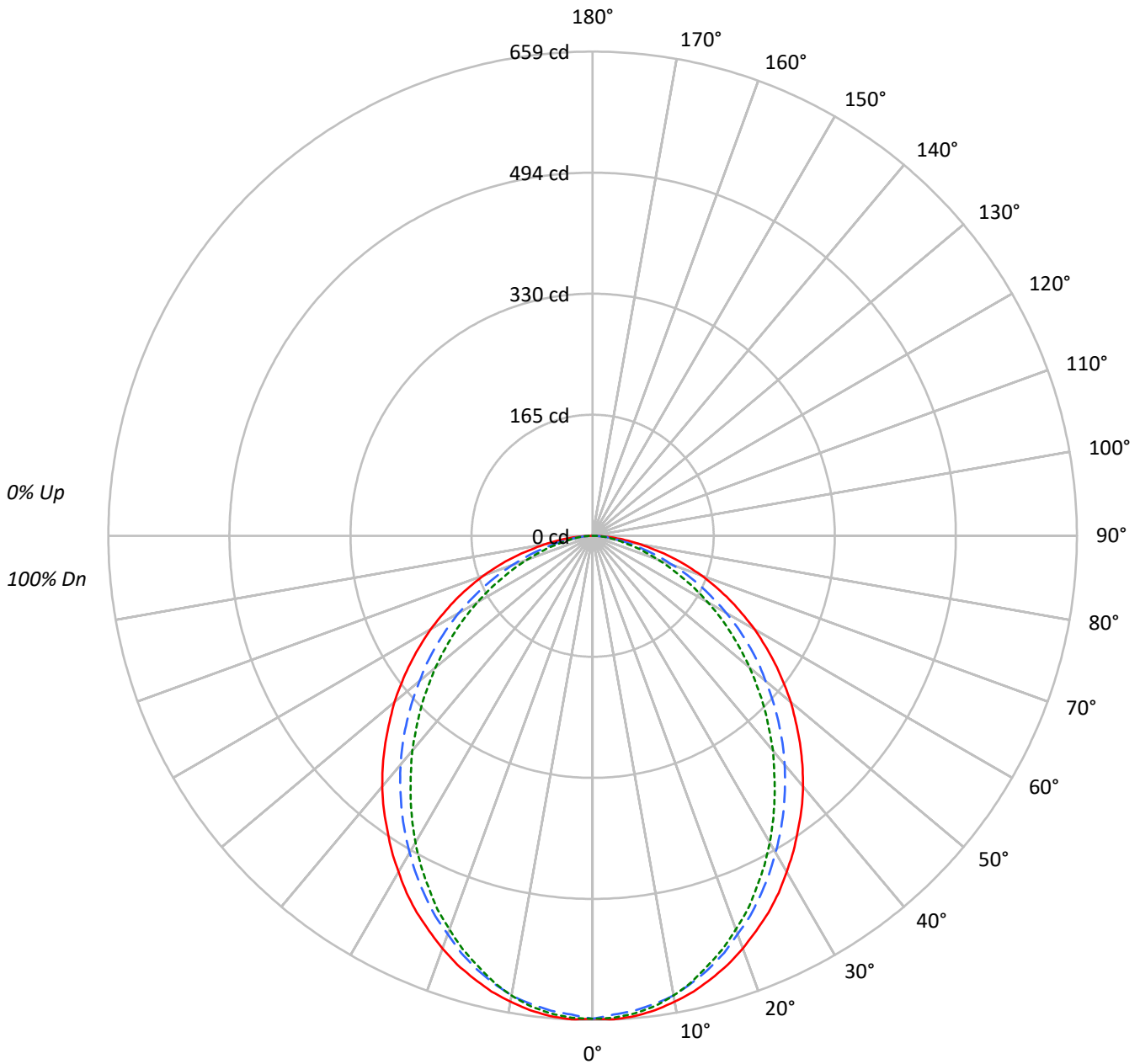
Lumens per Lamp: N/A
Luminaire Lumens: 1553.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 16.1
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°	7829	7829	7829
5°	7846	7758	7803
10°	7787	7684	7684
15°	7695	7529	7468
20°	7575	7312	7224
25°	7436	7097	6941
30°	7264	6847	6630
35°	7088	6591	6279
40°	6925	6321	5936
45°	6722	6020	5561
50°	6522	5694	5169
55°	6289	5382	4753
60°	6055	5002	4304
65°	5780	4562	3790
70°	5463	4008	3266
75°	5025	3382	2719
80°	4431	2661	2284
85°	3730	2173	2036



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.9	4.0
10°-20°	172.9	11.1
20°-30°	250.7	16.1
30°-40°	285.6	18.4
40°-50°	278.4	17.9
50°-60°	234.3	15.1
60°-70°	164.2	10.6
70°-80°	84.2	5.4
80°-90°	21.0	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°	485.4	31.3
0°-40°	771.0	49.6
0°-60°	1283.7	82.7
0°-90°	1553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	657	657	657	657	657	
5°	656	654	649	654	653	62
15°	624	621	611	610	606	176
25°	566	558	540	534	528	260
35°	488	476	453	439	432	305
45°	399	385	357	338	330	308
55°	303	287	259	237	229	271
65°	205	188	162	142	134	203
75°	109	94	74	63	59	115
85°	27	18	16	15	15	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	657.4	657.4	657.4	657.4	657.4
2.5°	658.8	657.4	652.4	657.4	656.8
5°	656.3	654.4	648.9	653.8	652.7
7.5°	651.4	649.3	642.9	646.9	645.9
10°	643.9	642.4	635.4	637.0	635.4
12.5°	635.4	633.4	623.5	624.5	622.1
15°	624.1	621.1	610.6	610.1	605.7
17.5°	612.1	607.7	595.2	592.8	589.3
20°	597.7	592.8	576.9	574.4	570.0
22.5°	581.8	576.9	560.1	554.6	551.0
25°	565.9	558.4	540.1	533.7	528.2
27.5°	548.1	539.1	519.8	511.4	506.0
30°	528.2	518.8	497.9	486.6	482.1
32.5°	508.8	497.5	476.1	463.2	457.3
35°	487.5	475.7	453.3	438.9	431.9
37.5°	467.2	452.7	429.9	413.1	406.0
40°	445.4	430.4	406.6	387.7	381.8
42.5°	422.4	407.0	382.2	364.4	354.9
45°	399.1	384.9	357.4	337.6	330.2
47.5°	374.7	360.0	332.5	312.3	303.8
50°	352.0	335.6	307.3	286.5	279.0
52.5°	327.1	310.4	283.9	261.1	253.6
55°	302.9	287.0	259.2	236.9	228.9
57.5°	278.0	261.1	234.4	212.5	205.5
60°	254.2	236.9	210.0	188.1	180.7
62.5°	228.9	212.5	185.2	165.3	157.8
65°	205.1	188.1	161.9	141.9	134.5
67.5°	181.1	164.4	139.0	120.2	114.3
70°	156.9	140.0	115.1	99.7	93.8
72.5°	133.1	116.7	93.8	79.9	76.5
75°	109.2	94.3	73.5	62.6	59.1
77.5°	84.8	72.9	55.5	47.2	44.2
80°	64.6	52.7	38.8	34.3	33.3
82.5°	44.7	34.3	25.9	24.2	23.9
85°	27.3	18.3	15.9	15.4	14.9
87.5°	11.5	7.9	7.5	7.5	6.9
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)