

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: P888031

Luminaire Tested: **DPT5-4F021-127V60-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: P888031
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: DPT5-4F021-127V60-A-XX-UDD_2700K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

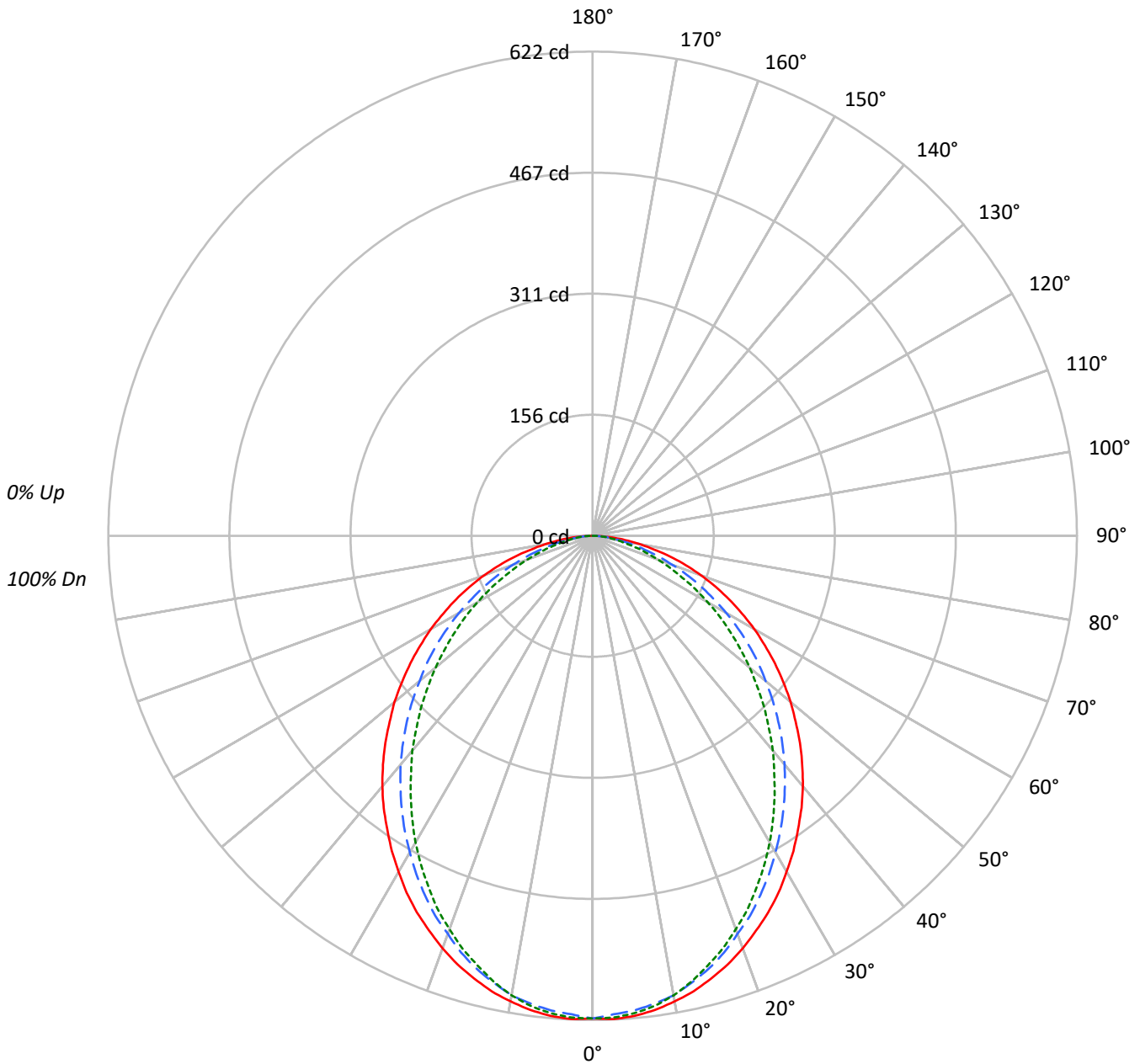
Lumens per Lamp: N/A
Luminaire Lumens: 1465.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 17
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°	10377	10377	10377
5°	10399	10282	10344
10°	10321	10185	10185
15°	10199	9979	9899
20°	10040	9691	9575
25°	9856	9407	9200
30°	9628	9076	8788
35°	9395	8735	8322
40°	9177	8377	7868
45°	8910	7980	7369
50°	8643	7547	6852
55°	8335	7133	6302
60°	8026	6630	5703
65°	7662	6046	5021
70°	7241	5313	4330
75°	6659	4481	3608
80°	5869	3527	3026
85°	4934	2880	2707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.4	4.0
10°-20°	163.1	11.1
20°-30°	236.5	16.1
30°-40°	269.4	18.4
40°-50°	262.6	17.9
50°-60°	221.0	15.1
60°-70°	154.9	10.6
70°-80°	79.4	5.4
80°-90°	19.8	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°	457.9	31.3
0°-40°	727.3	49.6
0°-60°	1210.9	82.7
0°-90°	1465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1465.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	620	620	620	620	620	
5°	619	617	612	617	616	59
15°	589	586	576	576	571	166
25°	534	527	510	503	498	246
35°	460	449	428	414	407	288
45°	376	363	337	318	311	290
55°	286	271	244	223	216	255
65°	194	178	153	134	127	192
75°	103	89	69	59	56	109
85°	26	17	15	14	14	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	620.1	620.1	620.1	620.1	620.1
2.5°	621.5	620.1	615.4	620.1	619.6
5°	619.1	617.3	612.1	616.7	615.8
7.5°	614.5	612.5	606.5	610.2	609.3
10°	607.4	606.0	599.4	600.9	599.4
12.5°	599.4	597.5	588.1	589.1	586.8
15°	588.7	585.9	576.0	575.5	571.4
17.5°	577.4	573.3	561.5	559.2	555.9
20°	563.8	559.2	544.2	541.8	537.7
22.5°	548.9	544.2	528.4	523.2	519.8
25°	533.8	526.8	509.5	503.4	498.3
27.5°	517.1	508.6	490.3	482.4	477.3
30°	498.3	489.4	469.7	459.0	454.8
32.5°	480.0	469.3	449.1	437.0	431.4
35°	459.9	448.7	427.6	414.0	407.4
37.5°	440.7	427.1	405.5	389.7	383.0
40°	420.1	406.0	383.5	365.7	360.2
42.5°	398.5	384.0	360.5	343.8	334.8
45°	376.5	363.0	337.2	318.5	311.4
47.5°	353.5	339.6	313.7	294.6	286.6
50°	332.0	316.6	289.9	270.3	263.2
52.5°	308.6	292.8	267.8	246.3	239.3
55°	285.7	270.7	244.5	223.4	216.0
57.5°	262.3	246.3	221.1	200.4	193.9
60°	239.8	223.4	198.1	177.5	170.4
62.5°	216.0	200.4	174.7	155.9	148.9
65°	193.5	177.5	152.7	133.9	126.8
67.5°	170.9	155.1	131.1	113.4	107.8
70°	148.0	132.0	108.6	94.1	88.5
72.5°	125.5	110.1	88.5	75.4	72.2
75°	103.0	89.0	69.3	59.1	55.8
77.5°	80.0	68.8	52.4	44.6	41.7
80°	60.9	49.7	36.6	32.3	31.4
82.5°	42.1	32.3	24.4	22.8	22.5
85°	25.7	17.3	15.0	14.5	14.1
87.5°	10.9	7.5	7.0	7.0	6.5
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)