

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: P888024

Luminaire Tested: **DPT5-4F021-109V60-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: P888024
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: DPT5-4F021-109V60-A-XX-UDD_4500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

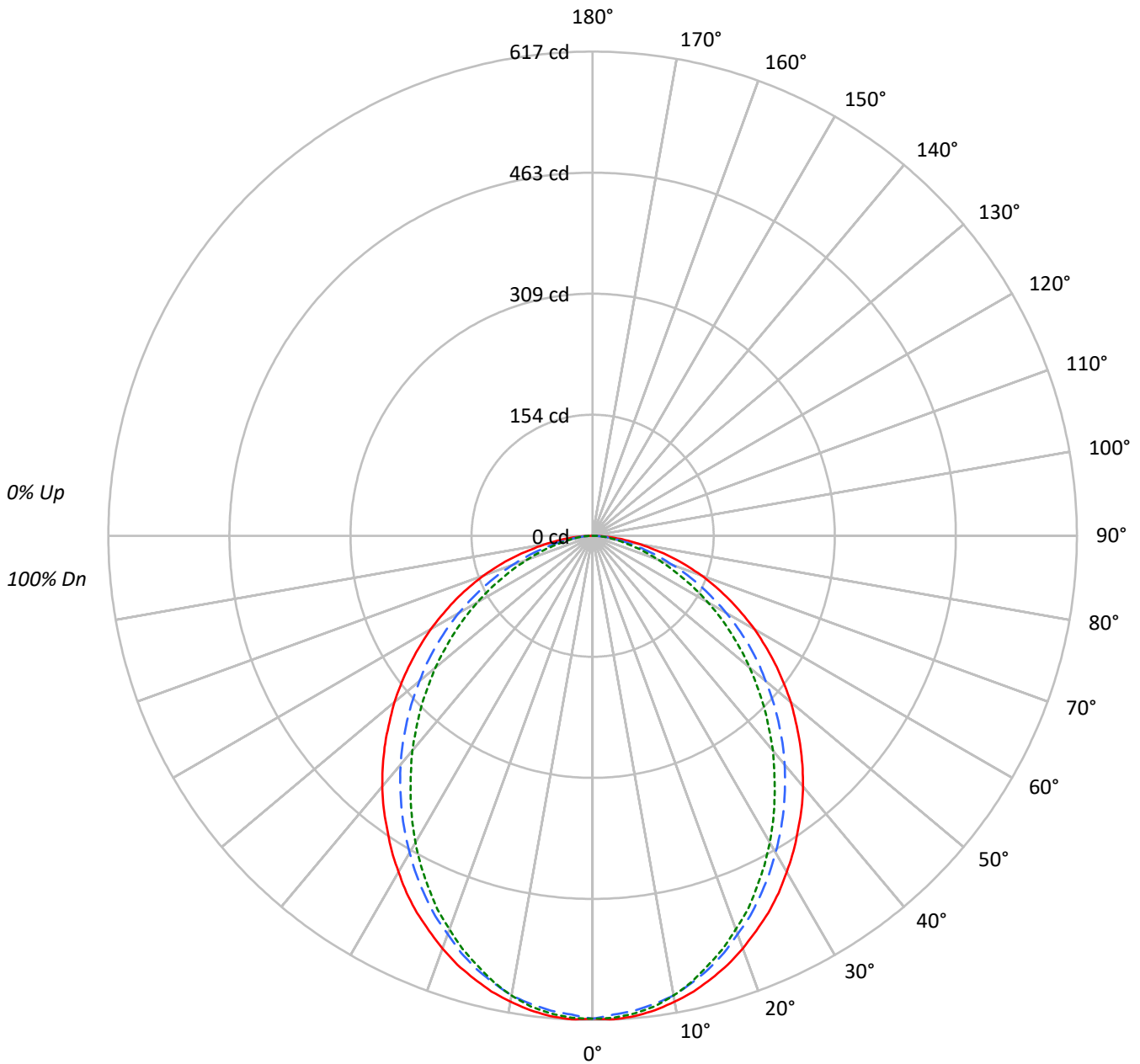
Lumens per Lamp: N/A
Luminaire Lumens: 1454.0 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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°	10298	10298	10298
5°	10322	10205	10265
10°	10244	10108	10108
15°	10122	9902	9824
20°	9965	9618	9502
25°	9782	9337	9132
30°	9557	9008	8722
35°	9325	8670	8261
40°	9109	8316	7809
45°	8844	7918	7315
50°	8578	7490	6802
55°	8274	7081	6252
60°	7965	6580	5663
65°	7602	6003	4985
70°	7187	5274	4301
75°	6614	4448	3582
80°	5820	3498	3007
85°	4896	2861	2688



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	4.0
10°-20°	161.9	11.1
20°-30°	234.7	16.1
30°-40°	267.4	18.4
40°-50°	260.6	17.9
50°-60°	219.3	15.1
60°-70°	153.7	10.6
70°-80°	78.8	5.4
80°-90°	19.7	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°	454.5	31.3
0°-40°	721.9	49.6
0°-60°	1201.8	82.7
0°-90°	1454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	615	615	615	615	615	
5°	614	613	608	612	611	58
15°	584	582	572	571	567	165
25°	530	523	506	500	495	244
35°	456	445	424	411	404	286
45°	374	360	335	316	309	288
55°	284	269	243	222	214	254
65°	192	176	152	133	126	190
75°	102	88	69	59	55	108
85°	26	17	15	14	14	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	615.4	615.4	615.4	615.4	615.4
2.5°	616.8	615.4	610.8	615.4	614.9
5°	614.5	612.7	607.5	612.1	611.1
7.5°	609.8	607.9	601.9	605.6	604.8
10°	602.9	601.5	594.9	596.4	594.9
12.5°	594.9	593.0	583.7	584.7	582.4
15°	584.3	581.5	571.6	571.2	567.1
17.5°	573.1	569.0	557.2	555.0	551.7
20°	559.6	555.0	540.1	537.8	533.6
22.5°	544.7	540.1	524.4	519.2	515.9
25°	529.8	522.8	505.7	499.7	494.6
27.5°	513.2	504.7	486.6	478.8	473.7
30°	494.6	485.8	466.2	455.6	451.4
32.5°	476.4	465.8	445.8	433.7	428.2
35°	456.5	445.3	424.4	410.9	404.4
37.5°	437.4	423.9	402.5	386.8	380.2
40°	417.0	403.0	380.7	363.0	357.5
42.5°	395.5	381.1	357.8	341.2	332.3
45°	373.7	360.3	334.6	316.1	309.1
47.5°	350.8	337.0	311.3	292.4	284.4
50°	329.5	314.2	287.7	268.2	261.3
52.5°	306.3	290.6	265.8	244.4	237.5
55°	283.6	268.7	242.7	221.8	214.3
57.5°	260.3	244.4	219.4	198.9	192.4
60°	238.0	221.8	196.6	176.2	169.2
62.5°	214.3	198.9	173.4	154.8	147.8
65°	192.0	176.2	151.6	132.9	125.9
67.5°	169.6	153.9	130.1	112.5	107.0
70°	146.9	131.1	107.8	93.4	87.9
72.5°	124.6	109.2	87.9	74.8	71.7
75°	102.3	88.3	68.8	58.6	55.4
77.5°	79.4	68.3	52.0	44.2	41.4
80°	60.4	49.3	36.3	32.1	31.2
82.5°	41.8	32.1	24.2	22.7	22.3
85°	25.5	17.2	14.9	14.4	14.0
87.5°	10.8	7.4	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)