

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: P888018

Luminaire Tested: **DPT5-4F021-109S35-A-XX-UDD**

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: P888018
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: DPT5-4F021-109S35-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

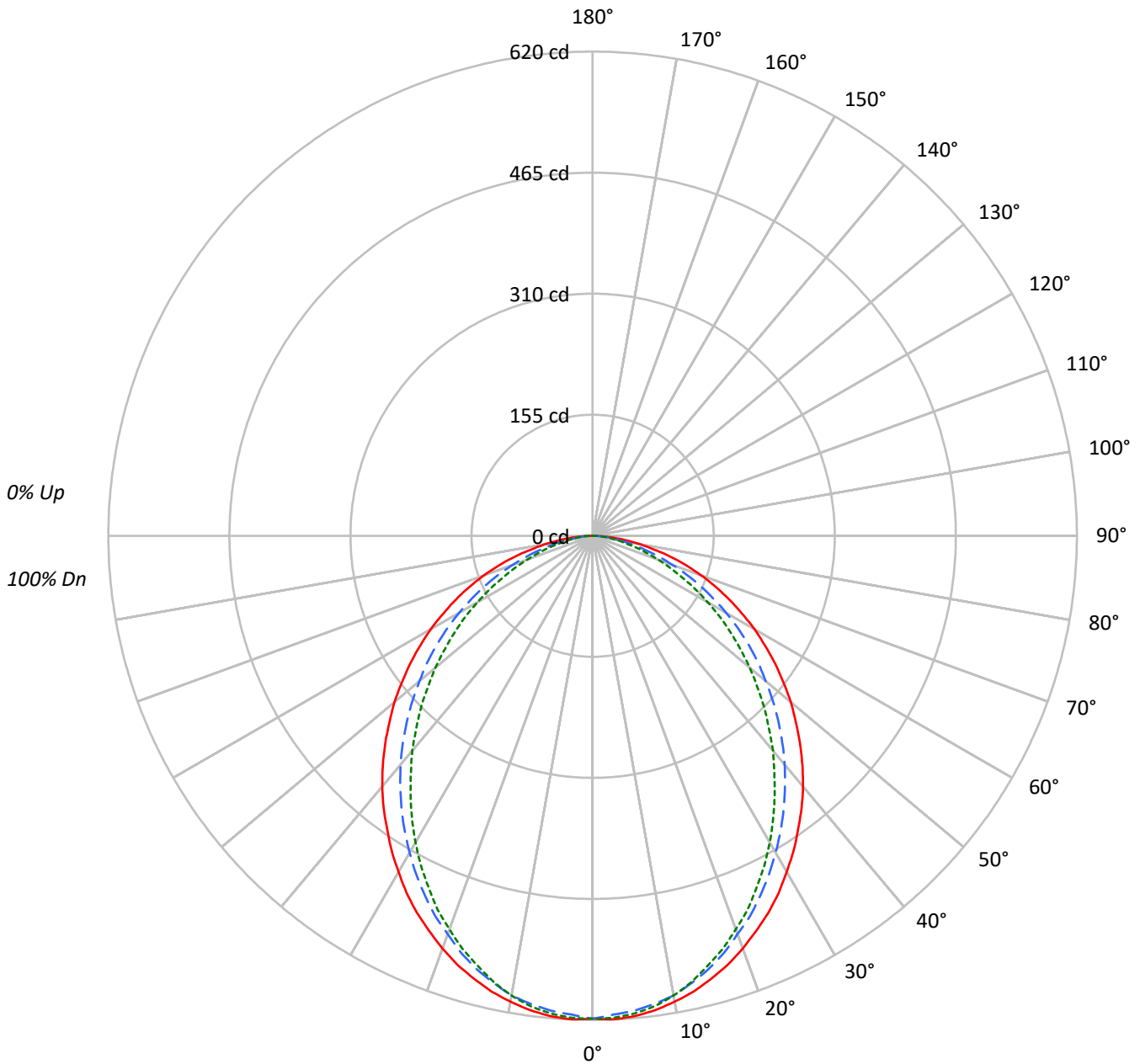
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1461.0 lumens
Efficiency: N/A
Efficacy: 100.1 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°	10348	10348	10348
5°	10373	10253	10315
10°	10294	10158	10158
15°	10171	9951	9871
20°	10013	9664	9548
25°	9830	9381	9175
30°	9601	9051	8763
35°	9370	8711	8300
40°	9153	8355	7846
45°	8886	7956	7350
50°	8620	7526	6834
55°	8312	7116	6284
60°	8002	6610	5689
65°	7638	6030	5009
70°	7222	5299	4320
75°	6646	4468	3595
80°	5849	3517	3026
85°	4915	2880	2688



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.2	4.0
10°-20°	162.6	11.1
20°-30°	235.8	16.1
30°-40°	268.7	18.4
40°-50°	261.9	17.9
50°-60°	220.4	15.1
60°-70°	154.4	10.6
70°-80°	79.2	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°	456.7	31.3
0°-40°	725.4	49.6
0°-60°	1207.6	82.7
0°-90°	1461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	618	616	610	615	614	59
15°	587	584	574	574	570	166
25°	532	525	508	502	497	245
35°	459	448	426	413	406	287
45°	376	362	336	318	311	290
55°	285	270	244	223	215	255
65°	193	177	152	134	126	191
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°	618.4	618.4	618.4	618.4	618.4
2.5°	619.8	618.4	613.7	618.4	617.9
5°	617.5	615.6	610.4	615.0	614.1
7.5°	612.8	610.9	604.8	608.5	607.7
10°	605.8	604.4	597.8	599.3	597.8
12.5°	597.8	595.9	586.5	587.5	585.2
15°	587.1	584.3	574.4	574.0	569.8
17.5°	575.9	571.7	559.9	557.7	554.4
20°	562.3	557.7	542.7	540.4	536.2
22.5°	547.4	542.7	526.9	521.7	518.3
25°	532.4	525.4	508.1	502.1	496.9
27.5°	515.7	507.2	489.0	481.1	476.0
30°	496.9	488.1	468.4	457.8	453.5
32.5°	478.7	468.0	447.9	435.8	430.2
35°	458.7	447.5	426.4	412.9	406.3
37.5°	439.5	425.9	404.4	388.7	382.0
40°	419.0	404.9	382.5	364.7	359.2
42.5°	397.4	382.9	359.5	342.8	333.9
45°	375.5	362.1	336.2	317.6	310.6
47.5°	352.5	338.7	312.8	293.8	285.8
50°	331.1	315.7	289.1	269.5	262.5
52.5°	307.7	292.0	267.1	245.6	238.6
55°	284.9	270.0	243.9	222.8	215.4
57.5°	261.6	245.6	220.5	199.9	193.4
60°	239.1	222.8	197.5	177.0	170.0
62.5°	215.4	199.9	174.2	155.5	148.5
65°	192.9	177.0	152.3	133.5	126.5
67.5°	170.4	154.6	130.7	113.1	107.5
70°	147.6	131.7	108.3	93.8	88.3
72.5°	125.2	109.8	88.3	75.2	72.0
75°	102.8	88.7	69.1	58.9	55.6
77.5°	79.8	68.6	52.2	44.4	41.6
80°	60.7	49.6	36.5	32.2	31.4
82.5°	42.0	32.2	24.3	22.8	22.4
85°	25.6	17.2	15.0	14.5	14.0
87.5°	10.8	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)