

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: P888021

Luminaire Tested: **DPT5-4F021-109V60-A-XX-UDD_3000K**

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: P888021
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_3000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

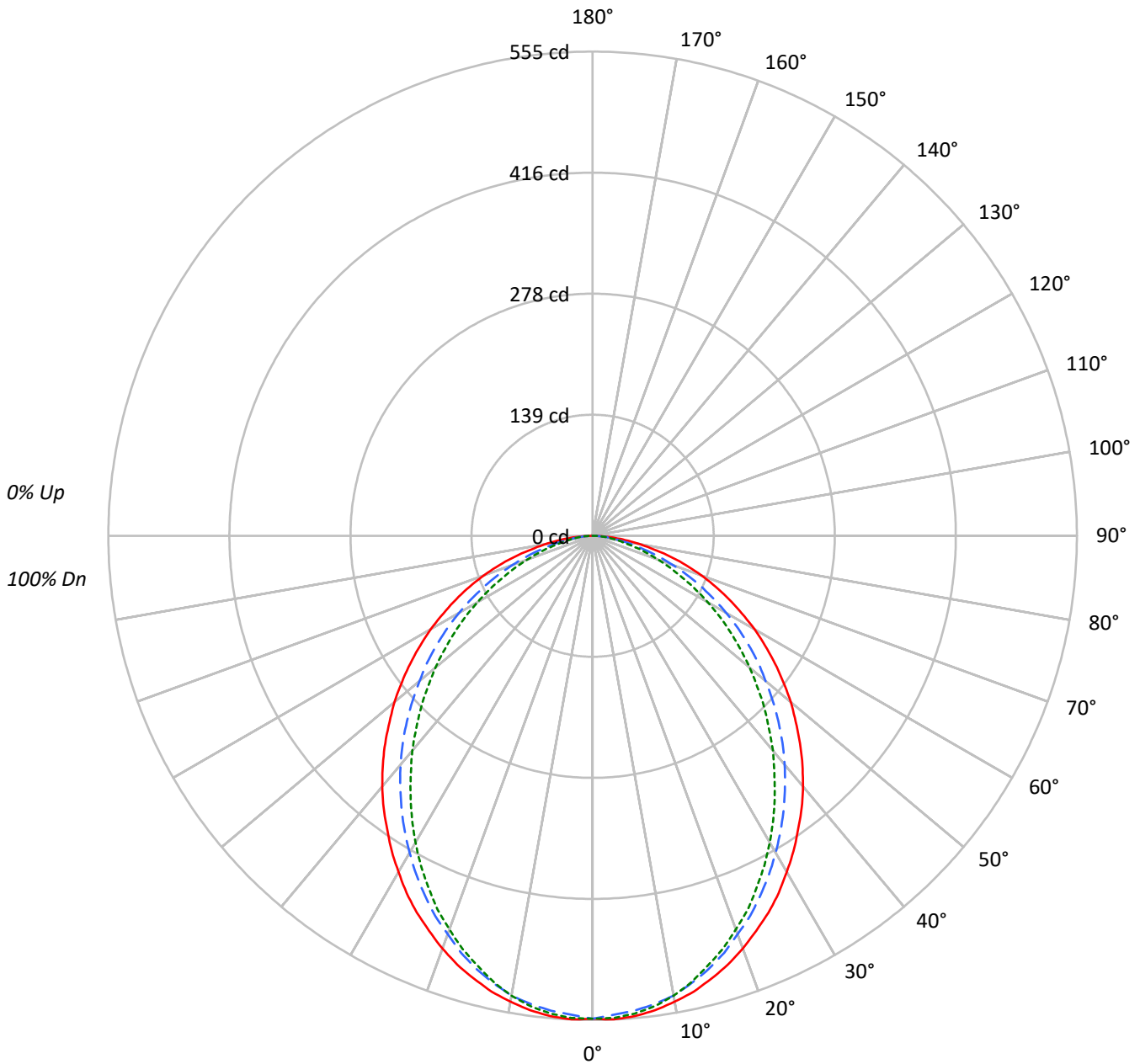
Lumens per Lamp: N/A
Luminaire Lumens: 1308.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

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°	9264	9264	9264
5°	9286	9180	9235
10°	9215	9094	9094
15°	9106	8908	8837
20°	8964	8653	8548
25°	8800	8399	8214
30°	8597	8104	7845
35°	8388	7799	7432
40°	8194	7480	7025
45°	7956	7123	6581
50°	7716	6737	6118
55°	7442	6369	5625
60°	7165	5917	5094
65°	6838	5401	4482
70°	6468	4746	3865
75°	5948	4002	3220
80°	5242	3151	2708
85°	4416	2573	2419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	4.0
10°-20°	145.6	11.1
20°-30°	211.1	16.1
30°-40°	240.5	18.4
40°-50°	234.4	17.9
50°-60°	197.3	15.1
60°-70°	138.3	10.6
70°-80°	70.9	5.4
80°-90°	17.7	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°	408.8	31.3
0°-40°	649.4	49.6
0°-60°	1081.1	82.7
0°-90°	1308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	554	554	554	554	554	
5°	553	551	546	551	550	52
15°	526	523	514	514	510	148
25°	477	470	455	450	445	219
35°	411	401	382	370	364	257
45°	336	324	301	284	278	259
55°	255	242	218	200	193	228
65°	173	158	136	120	113	171
75°	92	79	62	53	50	97
85°	23	15	13	13	13	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	553.6	553.6	553.6	553.6	553.6
2.5°	554.9	553.6	549.5	553.6	553.2
5°	552.8	551.2	546.5	550.6	549.8
7.5°	548.6	546.9	541.5	544.8	544.0
10°	542.3	541.1	535.2	536.5	535.2
12.5°	535.2	533.5	525.1	526.0	523.9
15°	525.6	523.1	514.2	513.9	510.1
17.5°	515.6	511.8	501.3	499.3	496.3
20°	503.4	499.3	485.9	483.8	480.0
22.5°	490.0	485.9	471.7	467.1	464.1
25°	476.6	470.3	454.9	449.5	444.9
27.5°	461.7	454.1	437.8	430.7	426.1
30°	444.9	437.0	419.4	409.8	406.0
32.5°	428.5	419.0	401.0	390.1	385.2
35°	410.6	400.6	381.8	369.7	363.8
37.5°	393.5	381.3	362.1	348.0	342.0
40°	375.1	362.5	342.4	326.5	321.6
42.5°	355.8	342.8	321.9	306.9	298.9
45°	336.2	324.1	301.0	284.3	278.1
47.5°	315.6	303.2	280.1	263.0	255.9
50°	296.4	282.6	258.8	241.3	235.0
52.5°	275.5	261.4	239.1	219.9	213.6
55°	255.1	241.7	218.3	199.5	192.8
57.5°	234.2	219.9	197.4	178.9	173.1
60°	214.1	199.5	176.8	158.5	152.2
62.5°	192.8	178.9	156.0	139.2	132.9
65°	172.7	158.5	136.4	119.5	113.2
67.5°	152.6	138.5	117.0	101.2	96.3
70°	132.2	117.9	97.0	84.0	79.0
72.5°	112.1	98.3	79.0	67.3	64.5
75°	92.0	79.4	61.9	52.7	49.8
77.5°	71.4	61.4	46.8	39.8	37.2
80°	54.4	44.4	32.7	28.9	28.1
82.5°	37.6	28.9	21.8	20.4	20.1
85°	23.0	15.4	13.4	13.0	12.6
87.5°	9.7	6.7	6.3	6.3	5.8
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)