

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: P888081

Luminaire Tested: **DPT5-4F029-109V60-A-XX-UDD_6500K**

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: P888081
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: DPT5-4F029-109V60-A-XX-UDD_6500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

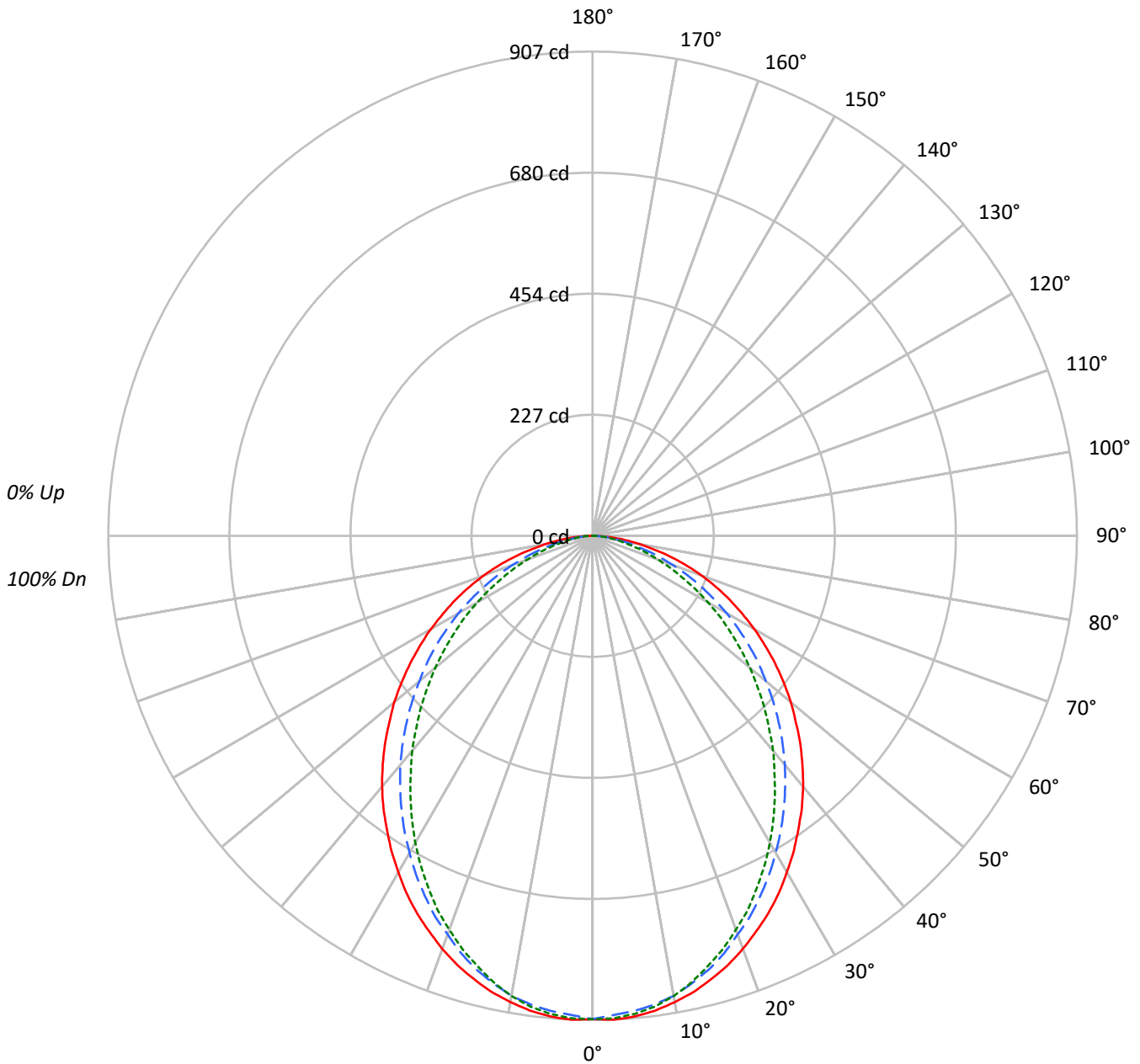
Lumens per Lamp: N/A
Luminaire Lumens: 2139.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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°	10783	10783	10783
5°	10807	10684	10749
10°	10726	10584	10584
15°	10599	10369	10285
20°	10433	10069	9949
25°	10242	9775	9561
30°	10006	9431	9131
35°	9763	9077	8649
40°	9536	8706	8176
45°	9258	8292	7658
50°	8982	7843	7120
55°	8663	7415	6547
60°	8339	6889	5929
65°	7961	6284	5219
70°	7525	5523	4502
75°	6921	4657	3746
80°	6097	3662	3148
85°	5124	2993	2801



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	4.0
10°-20°	238.1	11.1
20°-30°	345.3	16.1
30°-40°	393.4	18.4
40°-50°	383.4	17.9
50°-60°	322.7	15.1
60°-70°	226.1	10.6
70°-80°	115.9	5.4
80°-90°	28.9	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°	668.6	31.3
0°-40°	1062.0	49.6
0°-60°	1768.0	82.7
0°-90°	2139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	904	901	894	900	899	86
15°	860	855	841	840	834	242
25°	779	769	744	735	728	359
35°	672	655	624	604	595	420
45°	550	530	492	465	455	424
55°	417	395	357	326	315	373
65°	282	259	223	196	185	280
75°	150	130	101	86	81	159
85°	38	25	22	21	20	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.4	905.4	905.4	905.4	905.4
2.5°	907.4	905.4	898.5	905.4	904.6
5°	904.0	901.3	893.7	900.4	899.1
7.5°	897.2	894.4	885.5	890.9	889.7
10°	886.9	884.8	875.2	877.4	875.2
12.5°	875.2	872.4	858.7	860.1	856.8
15°	859.6	855.4	841.0	840.3	834.2
17.5°	843.1	837.0	819.8	816.5	811.7
20°	823.2	816.5	794.5	791.1	785.0
22.5°	801.4	794.5	771.5	763.8	758.9
25°	779.4	769.2	743.9	735.0	727.6
27.5°	755.0	742.5	715.9	704.4	696.9
30°	727.6	714.6	685.8	670.2	664.0
32.5°	700.8	685.2	655.8	638.0	629.9
35°	671.5	655.1	624.3	604.5	594.9
37.5°	643.5	623.6	592.1	569.0	559.2
40°	613.4	592.9	560.0	534.0	525.9
42.5°	581.8	560.6	526.4	501.9	488.8
45°	549.7	530.1	492.3	465.0	454.7
47.5°	516.1	495.8	458.0	430.1	418.5
50°	484.8	462.2	423.3	394.6	384.3
52.5°	450.5	427.5	391.1	359.6	349.3
55°	417.2	395.2	357.1	326.2	315.3
57.5°	382.9	359.6	322.8	292.6	283.1
60°	350.1	326.2	289.2	259.1	248.9
62.5°	315.3	292.6	255.1	227.7	217.4
65°	282.5	259.1	223.0	195.5	185.2
67.5°	249.5	226.4	191.4	165.5	157.4
70°	216.1	192.8	158.6	137.4	129.3
72.5°	183.3	160.7	129.3	110.1	105.4
75°	150.4	129.9	101.2	86.3	81.4
77.5°	116.8	100.5	76.5	65.1	60.9
80°	88.9	72.6	53.4	47.2	45.9
82.5°	61.5	47.2	35.6	33.4	32.9
85°	37.5	25.2	21.9	21.2	20.5
87.5°	15.9	10.9	10.3	10.3	9.5
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)