

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: P888090

Luminaire Tested: **DPT5-4F029-127V60-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: P888090
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: DPT5-4F029-127V60-A-XX-UDD_4500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

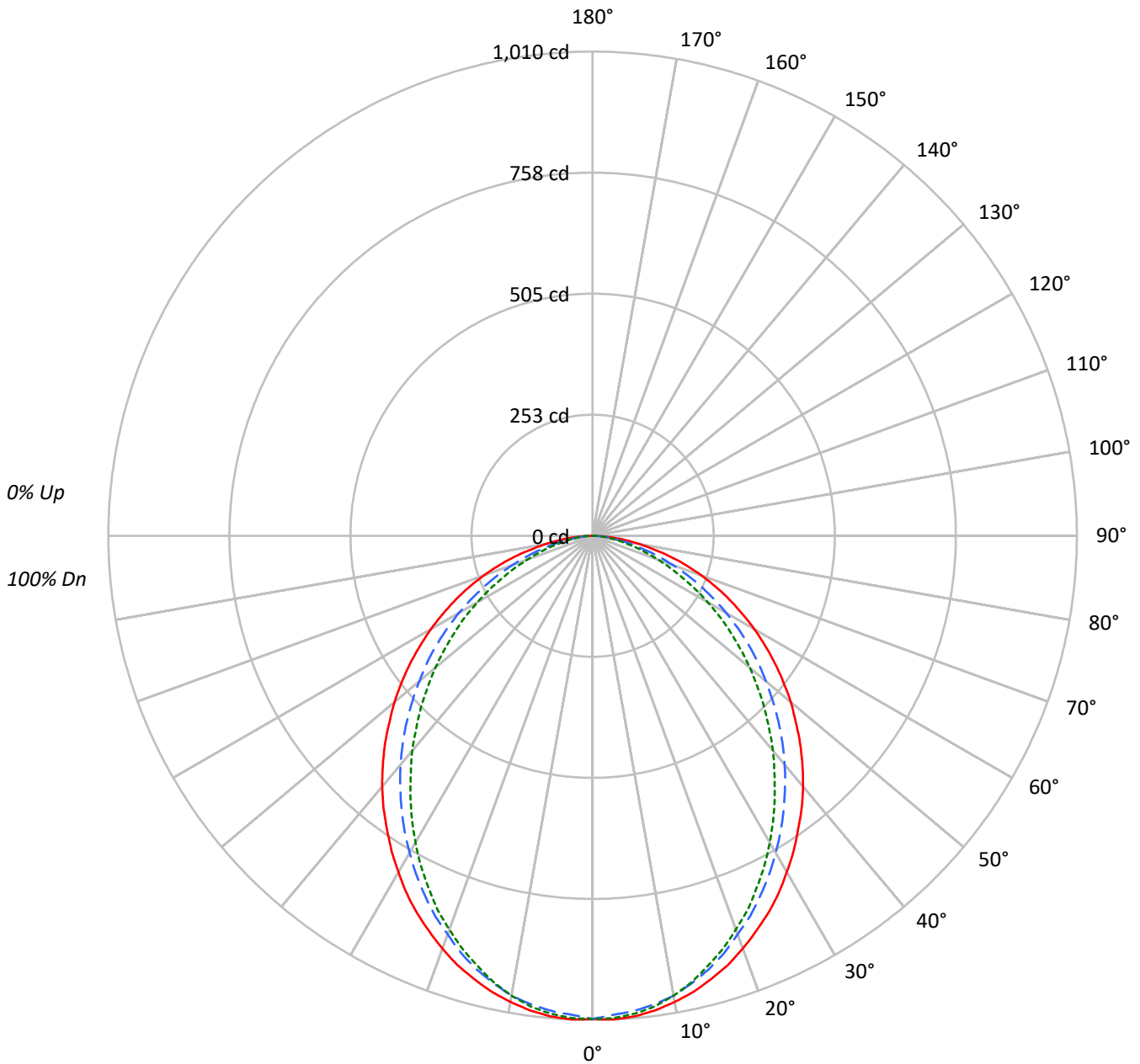
Lumens per Lamp: N/A
Luminaire Lumens: 2381.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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°	12002	12002	12002
5°	12030	11893	11965
10°	11939	11781	11781
15°	11798	11542	11449
20°	11613	11209	11074
25°	11401	10882	10643
30°	11138	10498	10164
35°	10868	10103	9628
40°	10615	9692	9101
45°	10306	9230	8526
50°	9998	8730	7926
55°	9643	8254	7288
60°	9282	7667	6598
65°	8860	6994	5808
70°	8378	6146	5011
75°	7708	5186	4169
80°	6790	4074	3505
85°	5712	3334	3129



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	4.0
10°-20°	265.1	11.1
20°-30°	384.3	16.1
30°-40°	437.9	18.4
40°-50°	426.8	17.9
50°-60°	359.2	15.1
60°-70°	251.7	10.6
70°-80°	129.0	5.4
80°-90°	32.2	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°	744.2	31.3
0°-40°	1182.1	49.6
0°-60°	1968.1	82.7
0°-90°	2381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1006	1003	995	1002	1001	95
15°	957	952	936	935	929	270
25°	868	856	828	818	810	399
35°	748	729	695	673	662	468
45°	612	590	548	518	506	472
55°	464	440	398	363	351	415
65°	314	288	248	218	206	311
75°	168	145	113	96	91	177
85°	42	28	24	24	23	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.8	1007.8	1007.8	1007.8	1007.8
2.5°	1010.1	1007.8	1000.2	1007.8	1007.0
5°	1006.3	1003.3	994.8	1002.3	1000.8
7.5°	998.7	995.5	985.7	991.7	990.3
10°	987.2	985.0	974.2	976.6	974.2
12.5°	974.2	971.1	955.9	957.4	953.8
15°	956.9	952.2	936.1	935.4	928.6
17.5°	938.5	931.7	912.5	908.9	903.5
20°	916.3	908.9	884.4	880.6	873.8
22.5°	892.1	884.4	858.7	850.3	844.8
25°	867.6	856.2	828.1	818.2	809.9
27.5°	840.4	826.5	796.9	784.0	775.7
30°	809.9	795.5	763.4	746.1	739.1
32.5°	780.1	762.7	730.0	710.2	701.2
35°	747.5	729.3	694.9	672.9	662.2
37.5°	716.3	694.1	659.1	633.4	622.5
40°	682.8	659.9	623.4	594.4	585.4
42.5°	647.6	624.1	585.9	558.7	544.2
45°	611.9	590.0	548.0	517.6	506.2
47.5°	574.5	551.9	509.8	478.8	465.8
50°	539.6	514.5	471.2	439.2	427.8
52.5°	501.5	475.8	435.3	400.3	388.8
55°	464.4	440.0	397.5	363.1	351.0
57.5°	426.3	400.3	359.3	325.7	315.1
60°	389.7	363.1	321.9	288.5	277.0
62.5°	351.0	325.7	283.9	253.4	242.0
65°	314.4	288.5	248.2	217.6	206.1
67.5°	277.7	252.0	213.1	184.3	175.2
70°	240.6	214.6	176.5	152.9	143.9
72.5°	204.0	178.9	143.9	122.6	117.3
75°	167.5	144.6	112.7	96.0	90.6
77.5°	130.0	111.8	85.1	72.4	67.8
80°	99.0	80.8	59.4	52.5	51.1
82.5°	68.5	52.5	39.7	37.1	36.6
85°	41.8	28.1	24.4	23.6	22.9
87.5°	17.6	12.1	11.4	11.4	10.6
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)