

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: P888077

Luminaire Tested: **DPT5-4F029-109V60-A-XX-UDD_3500K**

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: P888077
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_3500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

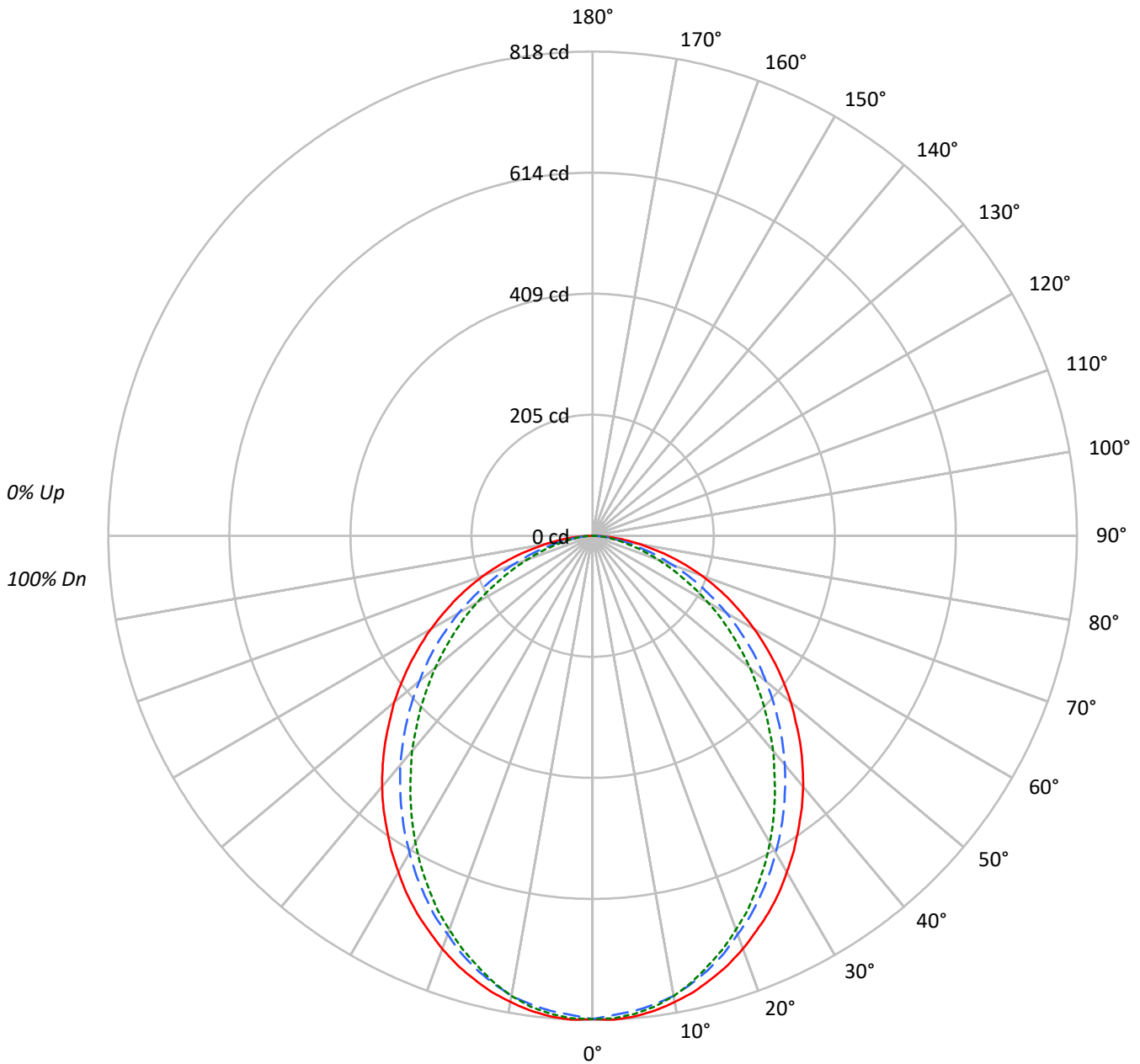
Lumens per Lamp: N/A
Luminaire Lumens: 1929.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

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°	9724	9724	9724
5°	9746	9636	9693
10°	9672	9545	9545
15°	9558	9351	9276
20°	9409	9081	8973
25°	9237	8816	8622
30°	9023	8506	8235
35°	8805	8185	7800
40°	8601	7851	7374
45°	8351	7476	6907
50°	8100	7072	6422
55°	7811	6686	5905
60°	7520	6212	5345
65°	7178	5667	4706
70°	6787	4979	4060
75°	6244	4201	3378
80°	5500	3306	2839
85°	4632	2706	2528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	4.0
10°-20°	214.7	11.1
20°-30°	311.4	16.1
30°-40°	354.8	18.4
40°-50°	345.8	17.9
50°-60°	291.0	15.1
60°-70°	203.9	10.6
70°-80°	104.6	5.4
80°-90°	26.1	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°	603.0	31.3
0°-40°	957.7	49.6
0°-60°	1594.5	82.7
0°-90°	1929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	815	813	806	812	811	77
15°	775	771	758	758	752	219
25°	703	694	671	663	656	324
35°	606	591	563	545	536	379
45°	496	478	444	419	410	382
55°	376	356	322	294	284	336
65°	255	234	201	176	167	252
75°	136	117	91	78	73	143
85°	34	23	20	19	18	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.5	816.5	816.5	816.5	816.5
2.5°	818.3	816.5	810.3	816.5	815.8
5°	815.2	812.8	806.0	812.0	810.8
7.5°	809.1	806.6	798.5	803.5	802.3
10°	799.8	798.0	789.3	791.2	789.3
12.5°	789.3	786.8	774.4	775.7	772.7
15°	775.2	771.4	758.4	757.8	752.3
17.5°	760.3	754.9	739.3	736.3	732.0
20°	742.4	736.3	716.5	713.4	708.0
22.5°	722.7	716.5	695.7	688.8	684.4
25°	702.9	693.7	670.9	662.9	656.1
27.5°	680.8	669.6	645.6	635.2	628.5
30°	656.1	644.5	618.5	604.4	598.8
32.5°	632.0	617.9	591.4	575.4	568.1
35°	605.6	590.8	563.0	545.2	536.5
37.5°	580.3	562.3	534.0	513.1	504.3
40°	553.2	534.7	505.0	481.6	474.3
42.5°	524.7	505.6	474.7	452.6	440.9
45°	495.8	478.0	443.9	419.3	410.1
47.5°	465.4	447.1	413.1	387.9	377.4
50°	437.2	416.8	381.7	355.9	346.6
52.5°	406.3	385.5	352.7	324.3	315.0
55°	376.2	356.4	322.0	294.2	284.4
57.5°	345.3	324.3	291.1	263.9	255.3
60°	315.7	294.2	260.8	233.7	224.4
62.5°	284.4	263.9	230.0	205.3	196.1
65°	254.7	233.7	201.1	176.3	167.0
67.5°	225.0	204.2	172.6	149.3	142.0
70°	194.9	173.9	143.0	123.9	116.6
72.5°	165.3	144.9	116.6	99.3	95.1
75°	135.7	117.1	91.3	77.8	73.4
77.5°	105.4	90.6	69.0	58.7	54.9
80°	80.2	65.4	48.2	42.6	41.4
82.5°	55.5	42.6	32.1	30.1	29.6
85°	33.9	22.8	19.8	19.1	18.5
87.5°	14.3	9.8	9.3	9.3	8.6
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)