

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: P888074

Luminaire Tested: **DPT5-4F029-109S40-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: P888074
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: DPT5-4F029-109S40-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

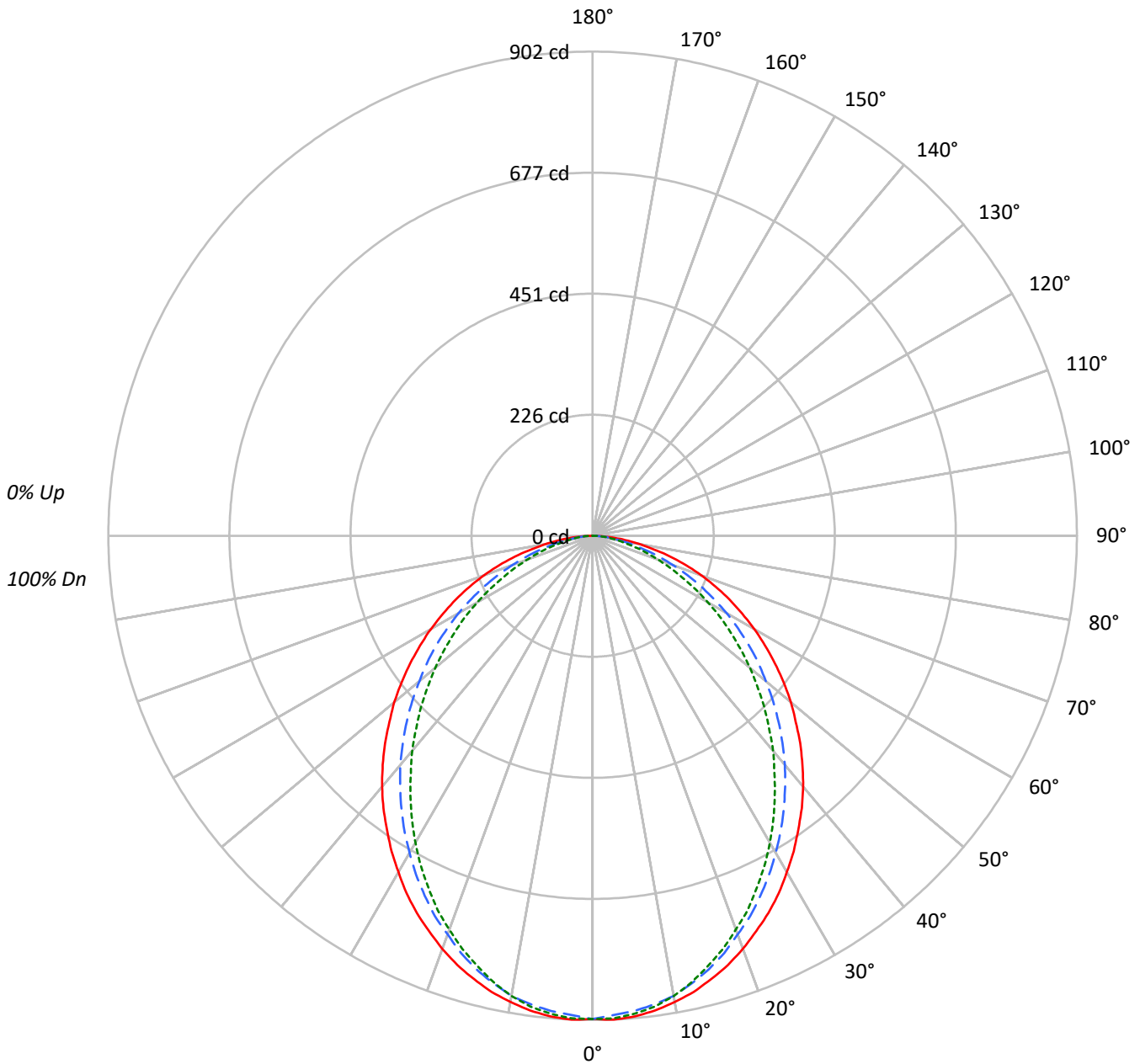
Lumens per Lamp: N/A
Luminaire Lumens: 2127.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

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°	10722	10722	10722
5°	10746	10624	10688
10°	10665	10525	10525
15°	10539	10310	10229
20°	10375	10014	9893
25°	10185	9722	9507
30°	9950	9379	9080
35°	9708	9026	8600
40°	9484	8658	8129
45°	9206	8245	7616
50°	8932	7798	7081
55°	8613	7373	6512
60°	8291	6850	5895
65°	7916	6248	5188
70°	7483	5491	4475
75°	6884	4634	3727
80°	6063	3642	3134
85°	5097	2979	2788



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	4.0
10°-20°	236.8	11.1
20°-30°	343.3	16.1
30°-40°	391.2	18.4
40°-50°	381.2	17.9
50°-60°	320.9	15.1
60°-70°	224.8	10.6
70°-80°	115.3	5.4
80°-90°	28.7	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°	664.9	31.3
0°-40°	1056.0	49.6
0°-60°	1758.1	82.7
0°-90°	2127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2127.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	899	896	889	895	894	85
15°	855	851	836	836	830	241
25°	775	765	740	731	724	357
35°	668	652	621	601	592	418
45°	547	527	490	462	452	422
55°	415	393	355	324	314	371
65°	281	258	222	194	184	278
75°	150	129	101	86	81	158
85°	37	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°	900.3	900.3	900.3	900.3	900.3
2.5°	902.3	900.3	893.5	900.3	899.6
5°	898.9	896.3	888.7	895.4	894.0
7.5°	892.1	889.3	880.5	885.9	884.7
10°	881.9	879.9	870.3	872.4	870.3
12.5°	870.3	867.5	853.9	855.3	852.0
15°	854.8	850.6	836.2	835.6	829.6
17.5°	838.4	832.3	815.2	811.9	807.1
20°	818.6	811.9	790.1	786.7	780.6
22.5°	796.9	790.1	767.1	759.6	754.6
25°	775.1	764.9	739.8	730.9	723.5
27.5°	750.7	738.4	711.9	700.4	693.0
30°	723.5	710.6	682.0	666.5	660.3
32.5°	696.9	681.4	652.1	634.4	626.4
35°	667.7	651.5	620.8	601.1	591.5
37.5°	639.9	620.1	588.8	565.8	556.1
40°	610.0	589.5	556.9	531.0	522.9
42.5°	578.6	557.5	523.4	499.1	486.1
45°	546.6	527.1	489.5	462.4	452.2
47.5°	513.2	493.0	455.5	427.7	416.1
50°	482.1	459.6	420.9	392.4	382.2
52.5°	448.0	425.1	388.9	357.6	347.4
55°	414.8	393.0	355.1	324.4	313.6
57.5°	380.8	357.6	321.0	291.0	281.5
60°	348.1	324.4	287.6	257.7	247.5
62.5°	313.6	291.0	253.6	226.4	216.2
65°	280.9	257.7	221.7	194.4	184.1
67.5°	248.1	225.1	190.3	164.6	156.5
70°	214.9	191.7	157.7	136.6	128.5
72.5°	182.3	159.8	128.5	109.5	104.8
75°	149.6	129.2	100.7	85.8	81.0
77.5°	116.2	99.9	76.1	64.7	60.5
80°	88.4	72.1	53.1	46.9	45.7
82.5°	61.2	46.9	35.4	33.2	32.7
85°	37.3	25.1	21.8	21.1	20.4
87.5°	15.8	10.8	10.2	10.2	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)