

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: P888099

Luminaire Tested: **DPT5-4F029-37V60-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: P888099
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: DPT5-4F029-37V60-A-XX-UDD_3500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

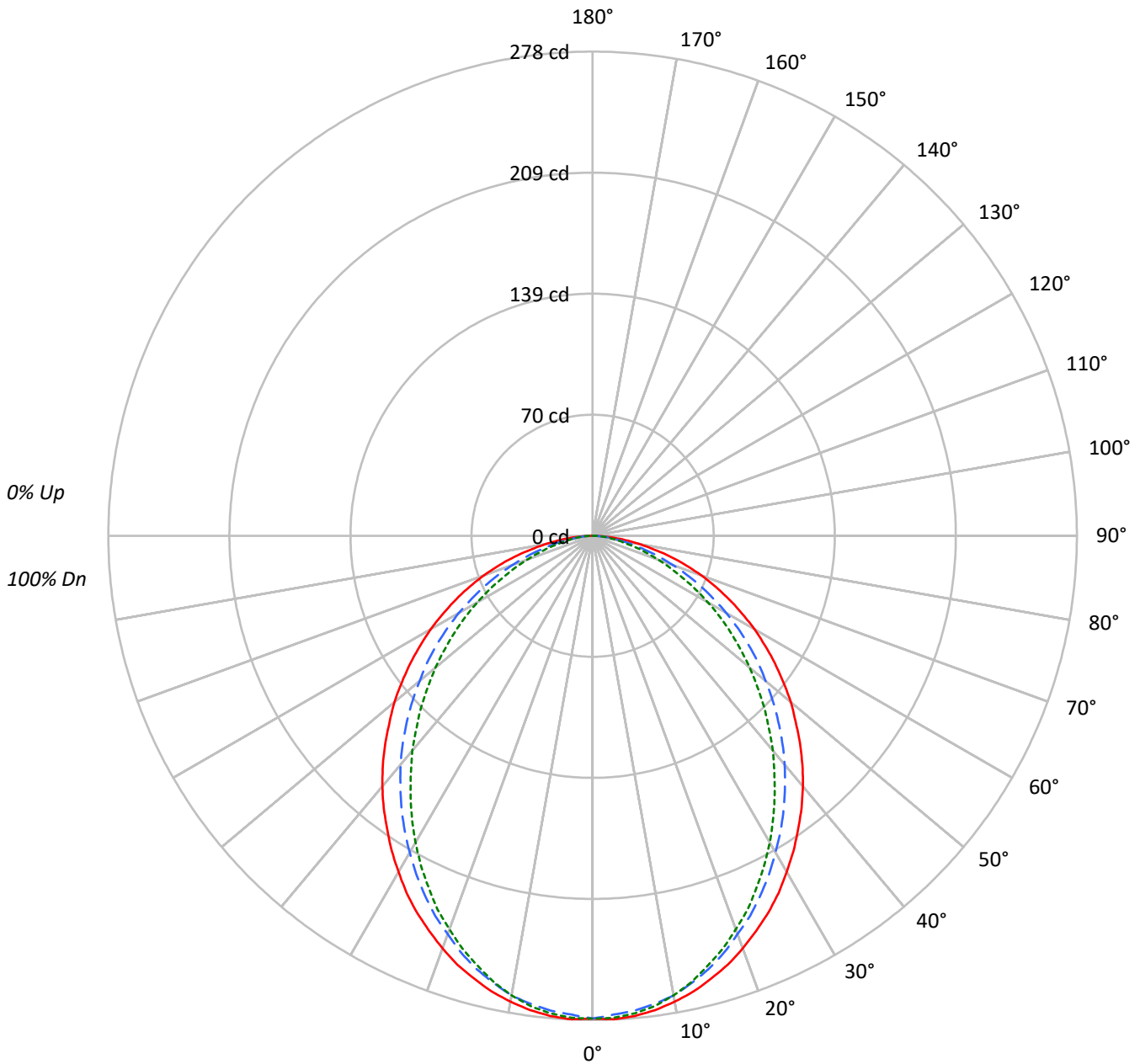
Lumens per Lamp: N/A
Luminaire Lumens: 655.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 7
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°	3301	3301	3301
5°	3309	3272	3291
10°	3285	3241	3241
15°	3245	3175	3150
20°	3195	3084	3047
25°	3137	2993	2928
30°	3064	2888	2796
35°	2989	2780	2649
40°	2920	2666	2503
45°	2835	2538	2345
50°	2751	2401	2181
55°	2652	2269	2006
60°	2553	2110	1815
65°	2438	1925	1598
70°	2305	1692	1379
75°	2121	1426	1146
80°	1866	1125	967
85°	1571	916	861



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.1	4.0
10°-20°	72.9	11.1
20°-30°	105.7	16.1
30°-40°	120.5	18.4
40°-50°	117.4	17.9
50°-60°	98.8	15.1
60°-70°	69.2	10.6
70°-80°	35.5	5.4
80°-90°	8.8	1.3
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°	204.7	31.3
0°-40°	325.2	49.6
0°-60°	541.4	82.7
0°-90°	655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	277	277	277	277	277	
5°	277	276	274	276	275	26
15°	263	262	258	257	256	74
25°	239	236	228	225	223	110
35°	206	201	191	185	182	129
45°	168	162	151	142	139	130
55°	128	121	109	100	97	114
65°	86	79	68	60	57	86
75°	46	40	31	26	25	49
85°	12	8	7	6	6	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	277.2	277.2	277.2	277.2	277.2
2.5°	277.9	277.2	275.2	277.2	277.0
5°	276.8	276.0	273.7	275.7	275.3
7.5°	274.7	273.9	271.2	272.8	272.4
10°	271.6	271.0	268.0	268.7	268.0
12.5°	268.0	267.1	263.0	263.4	262.4
15°	263.2	261.9	257.5	257.3	255.5
17.5°	258.2	256.3	251.0	250.0	248.5
20°	252.1	250.0	243.3	242.3	240.4
22.5°	245.4	243.3	236.2	233.9	232.4
25°	238.7	235.5	227.8	225.1	222.8
27.5°	231.2	227.4	219.2	215.7	213.4
30°	222.8	218.8	210.0	205.2	203.3
32.5°	214.6	209.8	200.8	195.4	192.9
35°	205.6	200.6	191.2	185.1	182.2
37.5°	197.0	190.9	181.3	174.2	171.3
40°	187.8	181.5	171.5	163.5	161.0
42.5°	178.2	171.7	161.2	153.7	149.7
45°	168.3	162.3	150.7	142.4	139.2
47.5°	158.0	151.8	140.3	131.7	128.1
50°	148.5	141.5	129.6	120.8	117.7
52.5°	138.0	130.9	119.7	110.1	107.0
55°	127.7	121.0	109.3	99.9	96.6
57.5°	117.3	110.1	98.9	89.6	86.7
60°	107.2	99.9	88.6	79.4	76.2
62.5°	96.6	89.6	78.1	69.7	66.6
65°	86.5	79.4	68.3	59.9	56.7
67.5°	76.4	69.3	58.6	50.7	48.2
70°	66.2	59.0	48.6	42.1	39.6
72.5°	56.1	49.2	39.6	33.7	32.3
75°	46.1	39.8	31.0	26.4	24.9
77.5°	35.8	30.8	23.4	19.9	18.6
80°	27.2	22.2	16.4	14.4	14.1
82.5°	18.8	14.4	10.9	10.2	10.1
85°	11.5	7.7	6.7	6.5	6.3
87.5°	4.9	3.3	3.1	3.1	2.9
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)