

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: P888317

Luminaire Tested: **DPT5-4F021-37V60-F-XX-UDD_2700K**

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: P888317
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: DPT5-4F021-37V60-F-XX-UDD_2700K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

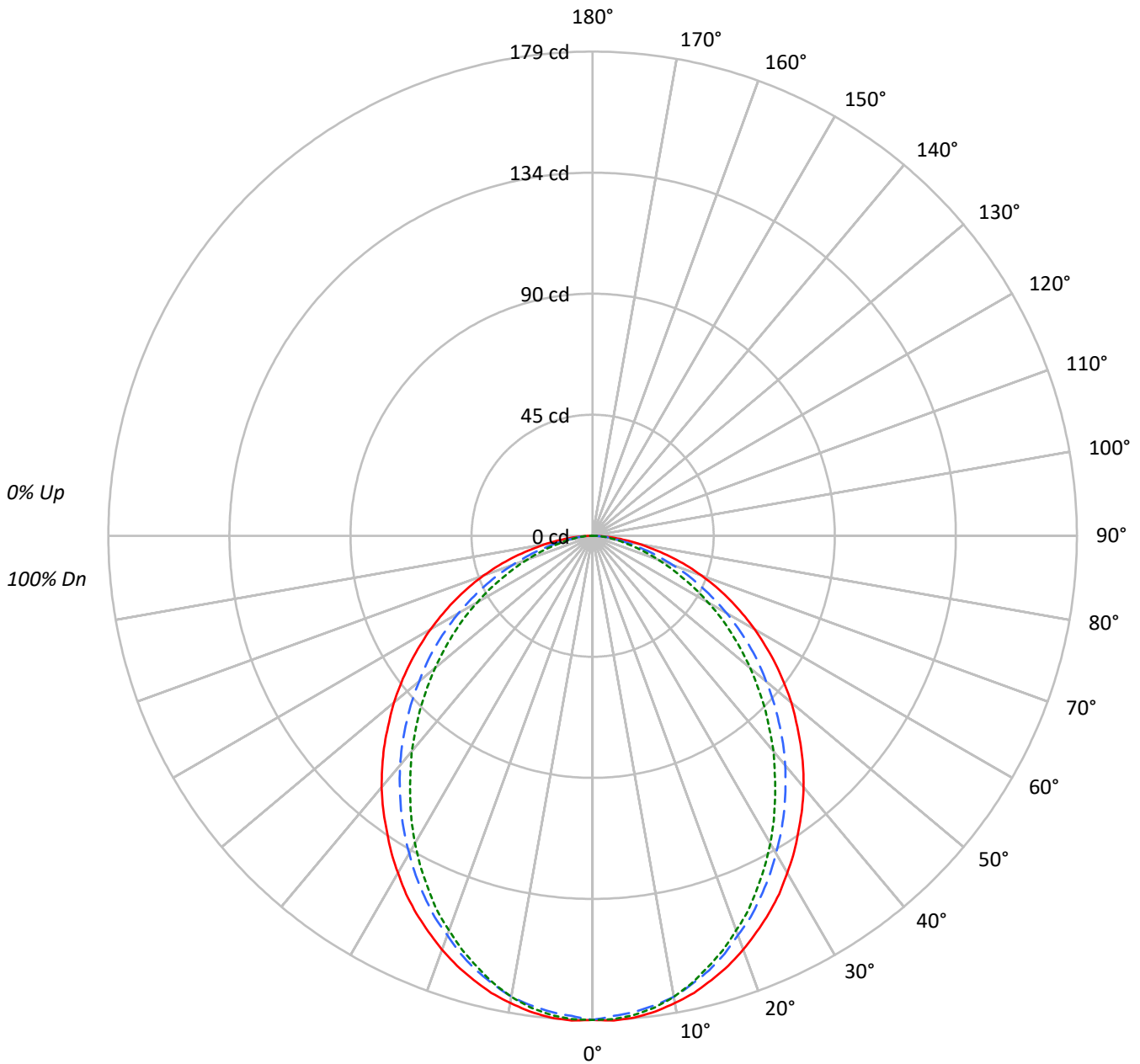
Lumens per Lamp: N/A
Luminaire Lumens: 423.0 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 5
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°	2995	2995	2995
5°	3003	2968	2987
10°	2980	2941	2941
15°	2945	2881	2858
20°	2899	2798	2764
25°	2845	2716	2657
30°	2781	2620	2537
35°	2713	2523	2402
40°	2650	2418	2272
45°	2572	2303	2127
50°	2497	2179	1979
55°	2407	2060	1820
60°	2316	1914	1647
65°	2213	1746	1449
70°	2089	1536	1253
75°	1920	1293	1041
80°	1696	1021	877
85°	1421	826	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.9	4.0
10°-20°	47.1	11.1
20°-30°	68.3	16.1
30°-40°	77.8	18.4
40°-50°	75.8	17.9
50°-60°	63.8	15.1
60°-70°	44.7	10.6
70°-80°	22.9	5.4
80°-90°	5.7	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°	132.2	31.3
0°-40°	210.0	49.6
0°-60°	349.6	82.7
0°-90°	423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	179	179	179	179	179	
5°	179	178	177	178	178	17
15°	170	169	166	166	165	48
25°	154	152	147	145	144	71
35°	133	130	124	120	118	83
45°	109	105	97	92	90	84
55°	82	78	71	64	62	74
65°	56	51	44	39	37	55
75°	30	26	20	17	16	31
85°	7	5	4	4	4	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	179.0	179.0	179.0	179.0	179.0
2.5°	179.4	179.0	177.7	179.0	178.9
5°	178.8	178.2	176.7	178.1	177.8
7.5°	177.4	176.9	175.1	176.2	175.9
10°	175.4	175.0	173.1	173.5	173.1
12.5°	173.1	172.5	169.8	170.1	169.4
15°	170.0	169.2	166.3	166.2	165.0
17.5°	166.7	165.5	162.1	161.5	160.5
20°	162.8	161.5	157.1	156.4	155.2
22.5°	158.5	157.1	152.6	151.1	150.1
25°	154.1	152.1	147.1	145.4	143.9
27.5°	149.3	146.8	141.6	139.3	137.8
30°	143.9	141.3	135.6	132.5	131.3
32.5°	138.6	135.5	129.7	126.2	124.6
35°	132.8	129.6	123.5	119.5	117.6
37.5°	127.2	123.3	117.1	112.5	110.6
40°	121.3	117.2	110.7	105.6	104.0
42.5°	115.1	110.9	104.1	99.3	96.7
45°	108.7	104.8	97.3	92.0	89.9
47.5°	102.1	98.1	90.6	85.1	82.8
50°	95.9	91.4	83.7	78.0	76.0
52.5°	89.1	84.5	77.3	71.1	69.1
55°	82.5	78.2	70.6	64.5	62.4
57.5°	75.7	71.1	63.8	57.9	56.0
60°	69.2	64.5	57.2	51.2	49.2
62.5°	62.4	57.9	50.4	45.0	43.0
65°	55.9	51.2	44.1	38.7	36.6
67.5°	49.3	44.8	37.9	32.7	31.1
70°	42.7	38.1	31.4	27.2	25.6
72.5°	36.2	31.8	25.6	21.8	20.8
75°	29.7	25.7	20.0	17.1	16.1
77.5°	23.1	19.9	15.1	12.9	12.0
80°	17.6	14.3	10.6	9.3	9.1
82.5°	12.2	9.3	7.0	6.6	6.5
85°	7.4	5.0	4.3	4.2	4.1
87.5°	3.1	2.2	2.0	2.0	1.9
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)