

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: P888333

Luminaire Tested: **DPT5-4F021-61V60-F-XX-UDD_5000K**

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: P888333
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: DPT5-4F021-61V60-F-XX-UDD_5000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

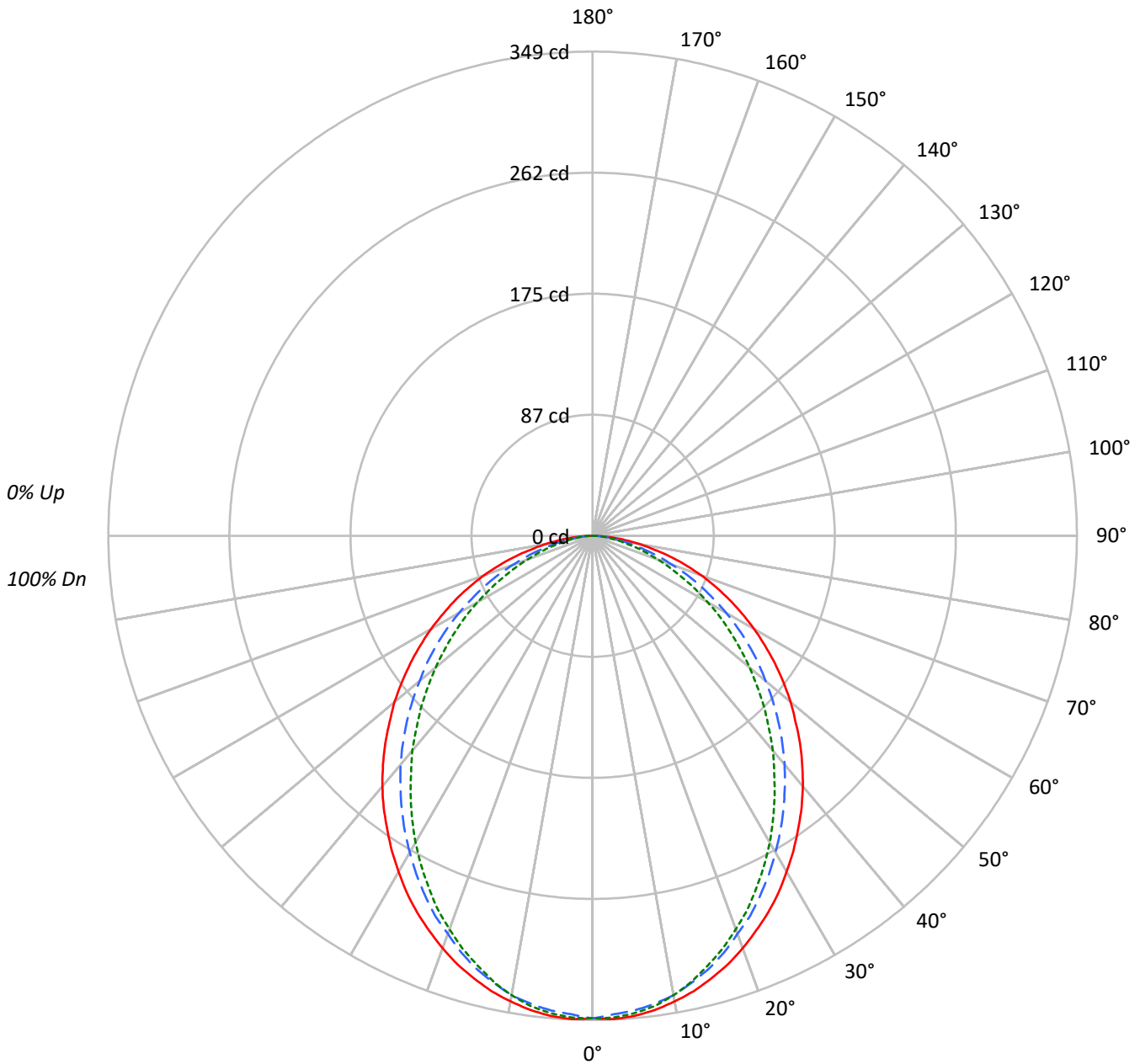
Lumens per Lamp: N/A
Luminaire Lumens: 822.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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°	5822	5822	5822
5°	5836	5770	5804
10°	5791	5714	5714
15°	5722	5599	5554
20°	5633	5437	5373
25°	5530	5279	5162
30°	5403	5093	4931
35°	5273	4901	4670
40°	5149	4701	4415
45°	5000	4477	4134
50°	4850	4236	3845
55°	4677	4003	3536
60°	4501	3718	3199
65°	4300	3393	2819
70°	4066	2980	2432
75°	3737	2515	2024
80°	3296	1975	1696
85°	2765	1613	1517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	4.0
10°-20°	91.5	11.1
20°-30°	132.7	16.1
30°-40°	151.2	18.4
40°-50°	147.3	17.9
50°-60°	124.0	15.1
60°-70°	86.9	10.6
70°-80°	44.5	5.4
80°-90°	11.1	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°	256.9	31.3
0°-40°	408.1	49.6
0°-60°	679.4	82.7
0°-90°	822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	348	348	348	348	348	
5°	347	346	344	346	346	33
15°	330	329	323	323	321	93
25°	300	296	286	282	280	138
35°	258	252	240	232	229	162
45°	211	204	189	179	175	163
55°	160	152	137	125	121	143
65°	109	100	86	75	71	108
75°	58	50	39	33	31	61
85°	14	10	8	8	8	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	347.9	347.9	347.9	347.9	347.9
2.5°	348.7	347.9	345.3	347.9	347.6
5°	347.4	346.4	343.5	346.0	345.5
7.5°	344.8	343.7	340.3	342.4	341.9
10°	340.8	340.0	336.3	337.2	336.3
12.5°	336.3	335.3	330.0	330.5	329.3
15°	330.3	328.7	323.2	322.9	320.6
17.5°	324.0	321.7	315.0	313.8	311.9
20°	316.3	313.8	305.3	304.0	301.7
22.5°	308.0	305.3	296.5	293.5	291.6
25°	299.5	295.6	285.9	282.5	279.6
27.5°	290.1	285.3	275.1	270.7	267.8
30°	279.6	274.6	263.6	257.6	255.2
32.5°	269.3	263.3	252.0	245.2	242.1
35°	258.1	251.8	239.9	232.3	228.6
37.5°	247.3	239.6	227.5	218.7	214.9
40°	235.7	227.8	215.2	205.2	202.1
42.5°	223.6	215.4	202.3	192.9	187.9
45°	211.3	203.7	189.2	178.7	174.7
47.5°	198.3	190.5	176.0	165.3	160.8
50°	186.3	177.6	162.7	151.6	147.7
52.5°	173.1	164.3	150.3	138.2	134.2
55°	160.3	151.9	137.2	125.4	121.2
57.5°	147.2	138.2	124.1	112.5	108.8
60°	134.5	125.4	111.1	99.6	95.6
62.5°	121.2	112.5	98.0	87.5	83.5
65°	108.6	99.6	85.7	75.1	71.2
67.5°	95.9	87.0	73.6	63.6	60.5
70°	83.1	74.1	60.9	52.8	49.7
72.5°	70.4	61.8	49.7	42.3	40.5
75°	57.8	49.9	38.9	33.1	31.3
77.5°	44.9	38.6	29.4	25.0	23.4
80°	34.2	27.9	20.5	18.1	17.6
82.5°	23.6	18.1	13.7	12.8	12.6
85°	14.4	9.7	8.4	8.1	7.9
87.5°	6.1	4.2	3.9	3.9	3.7
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)