

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: P888351

Luminaire Tested: **DPT5-4F029-109V60-F-XX-UDD_3000K**

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: P888351
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-F-XX-UDD_3000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

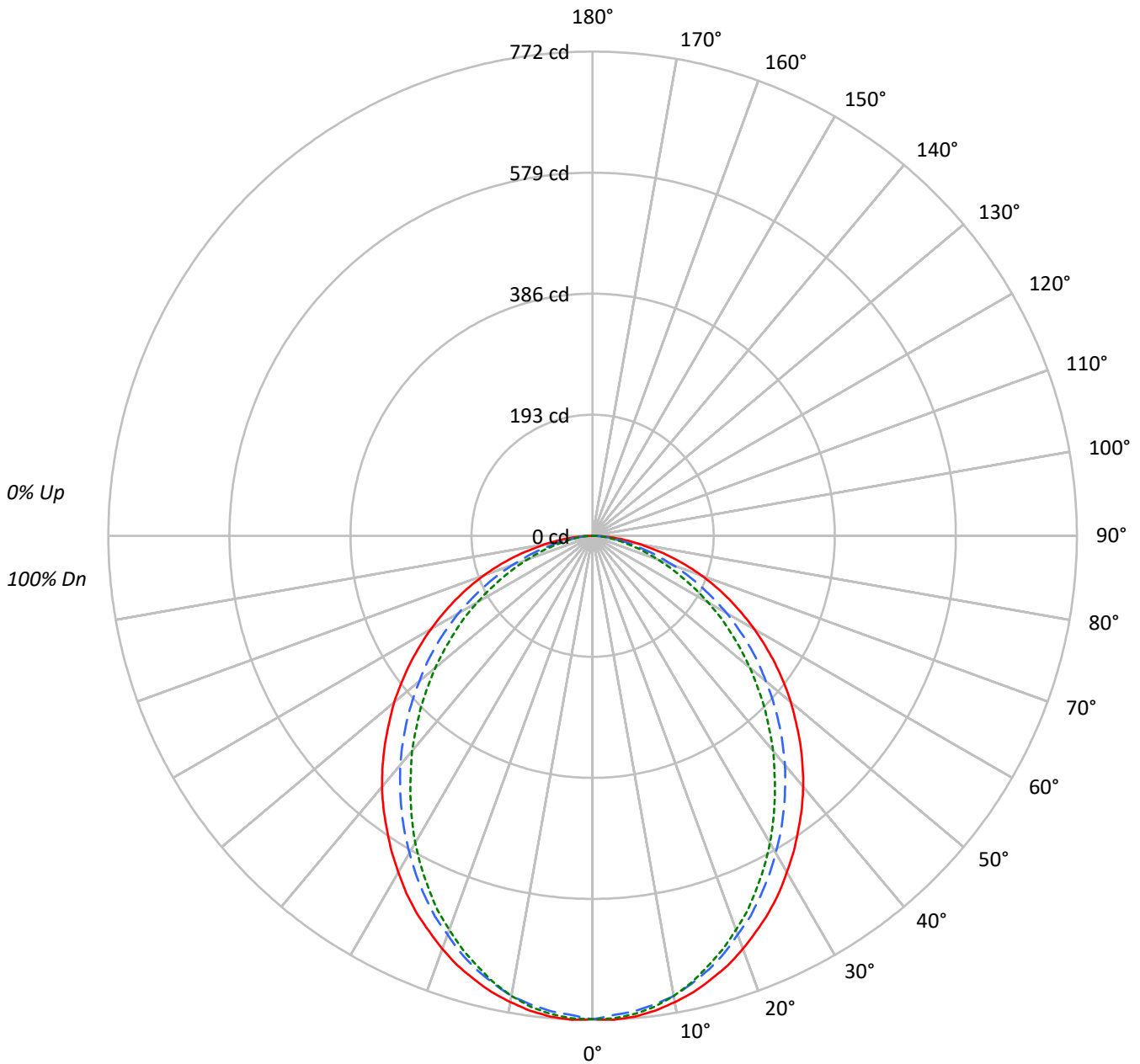
Lumens per Lamp: N/A
Luminaire Lumens: 1821.0 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P888351

CATALOG NUMBER: DPT5-4F029-109V60-F-XX-UDD_3000K

Luminous Intensity Polar Plot





TEST NUMBER: P888351

CATALOG NUMBER: DPT5-4F029-109V60-F-XX-UDD_3000K

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°	9180	9180	9180
5°	9201	9097	9150
10°	9130	9011	9011
15°	9023	8827	8757
20°	8882	8573	8470
25°	8720	8322	8139
30°	8518	8030	7774
35°	8312	7727	7363
40°	8119	7413	6960
45°	7882	7059	6520
50°	7647	6676	6062
55°	7375	6312	5573
60°	7098	5864	5047
65°	6777	5349	4444
70°	6407	4701	3830
75°	5895	3967	3189
80°	5192	3121	2682
85°	4373	2555	2391



TEST NUMBER: P888351

CATALOG NUMBER: DPT5-4F029-109V60-F-XX-UDD_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.5	4.0
10°-20°	202.7	11.1
20°-30°	293.9	16.1
30°-40°	334.9	18.4
40°-50°	326.4	17.9
50°-60°	274.7	15.1
60°-70°	192.5	10.6
70°-80°	98.7	5.4
80°-90°	24.6	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°	569.2	31.3
0°-40°	904.1	49.6
0°-60°	1505.2	82.7
0°-90°	1821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	770	767	761	767	765	73
15°	732	728	716	715	710	206
25°	664	655	633	626	619	305
35°	572	558	532	515	506	358
45°	468	451	419	396	387	361
55°	355	336	304	278	268	318
65°	240	221	190	166	158	238
75°	128	111	86	73	69	135
85°	32	22	19	18	18	37
90°	0	0	0	0	0	



TEST NUMBER: P888351

CATALOG NUMBER: DPT5-4F029-109V60-F-XX-UDD_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	770.8	770.8	770.8	770.8	770.8
2.5°	772.5	770.8	765.0	770.8	770.1
5°	769.6	767.3	760.9	766.6	765.4
7.5°	763.8	761.4	753.8	758.5	757.4
10°	755.0	753.3	745.1	746.9	745.1
12.5°	745.1	742.7	731.1	732.2	729.4
15°	731.8	728.2	715.9	715.4	710.2
17.5°	717.8	712.6	697.9	695.1	691.0
20°	700.8	695.1	676.4	673.5	668.3
22.5°	682.2	676.4	656.8	650.3	646.1
25°	663.6	654.8	633.3	625.8	619.4
27.5°	642.7	632.1	609.5	599.6	593.3
30°	619.4	608.4	583.9	570.6	565.3
32.5°	596.6	583.3	558.3	543.2	536.3
35°	571.7	557.7	531.5	514.7	506.4
37.5°	547.8	530.9	504.1	484.4	476.1
40°	522.2	504.7	476.8	454.6	447.7
42.5°	495.3	477.3	448.1	427.3	416.2
45°	468.0	451.3	419.1	395.9	387.1
47.5°	439.4	422.1	389.9	366.2	356.2
50°	412.7	393.5	360.3	335.9	327.2
52.5°	383.6	363.9	332.9	306.1	297.4
55°	355.2	336.5	304.0	277.7	268.4
57.5°	326.0	306.1	274.8	249.1	241.0
60°	298.0	277.7	246.2	220.6	211.9
62.5°	268.4	249.1	217.2	193.8	185.1
65°	240.5	220.6	189.8	166.4	157.7
67.5°	212.4	192.8	162.9	140.9	134.0
70°	184.0	164.1	135.0	116.9	110.0
72.5°	156.0	136.8	110.0	93.7	89.7
75°	128.1	110.6	86.2	73.4	69.3
77.5°	99.5	85.5	65.1	55.4	51.8
80°	75.7	61.8	45.5	40.2	39.1
82.5°	52.4	40.2	30.3	28.4	28.0
85°	32.0	21.5	18.7	18.0	17.5
87.5°	13.5	9.3	8.7	8.7	8.1
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)