

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: P888301

Luminaire Tested: **DPT5-4F021-109V60-F-XX-UDD_6500K**

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: P888301
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: DPT5-4F021-109V60-F-XX-UDD_6500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

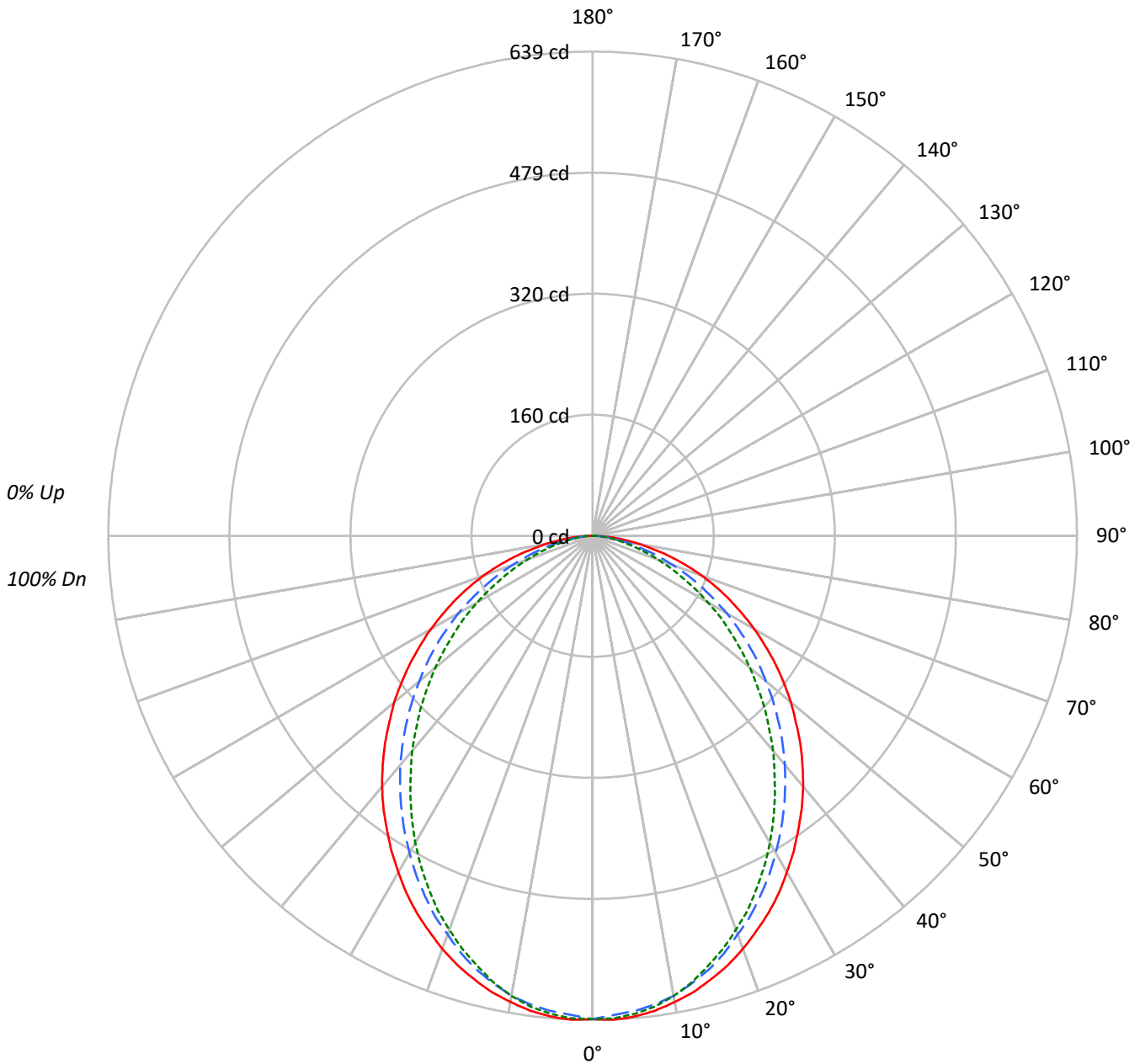
Lumens per Lamp: N/A
Luminaire Lumens: 1507.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
Input Voltage (V): NR
Input Current (Ain): 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: P888301

CATALOG NUMBER: DPT5-4F021-109V60-F-XX-UDD_6500K

Luminous Intensity Polar Plot





TEST NUMBER: P888301

CATALOG NUMBER: DPT5-4F021-109V60-F-XX-UDD_6500K

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°	10674	10674	10674
5°	10698	10577	10640
10°	10617	10477	10477
15°	10491	10265	10181
20°	10328	9969	9849
25°	10138	9677	9464
30°	9905	9337	9039
35°	9665	8986	8561
40°	9441	8618	8093
45°	9165	8207	7582
50°	8893	7763	7050
55°	8574	7340	6483
60°	8253	6821	5867
65°	7879	6220	5167
70°	7451	5465	4457
75°	6853	4610	3711
80°	6033	3623	3113
85°	5088	2976	2784



TEST NUMBER: P888301

CATALOG NUMBER: DPT5-4F021-109V60-F-XX-UDD_6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.0	4.0
10°-20°	167.8	11.1
20°-30°	243.3	16.1
30°-40°	277.1	18.4
40°-50°	270.1	17.9
50°-60°	227.3	15.1
60°-70°	159.3	10.6
70°-80°	81.7	5.4
80°-90°	20.4	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°	471.0	31.3
0°-40°	748.2	49.6
0°-60°	1245.6	82.7
0°-90°	1507.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	638	638	638	638	638	
5°	637	635	630	634	633	60
15°	606	603	592	592	588	171
25°	549	542	524	518	513	253
35°	473	462	440	426	419	296
45°	387	374	347	328	320	299
55°	294	278	252	230	222	263
65°	199	183	157	138	130	197
75°	106	92	71	61	57	112
85°	26	18	16	15	14	31
90°	0	0	0	0	0	



TEST NUMBER: P888301

CATALOG NUMBER: DPT5-4F021-109V60-F-XX-UDD_6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	637.9	637.9	637.9	637.9	637.9
2.5°	639.3	637.9	633.1	637.9	637.3
5°	636.9	635.0	629.7	634.4	633.4
7.5°	632.1	630.1	623.9	627.7	626.8
10°	624.8	623.4	616.6	618.1	616.6
12.5°	616.6	614.6	605.0	606.0	603.7
15°	605.6	602.7	592.5	592.0	587.7
17.5°	594.0	589.7	577.6	575.2	571.8
20°	580.0	575.2	559.8	557.4	553.1
22.5°	564.6	559.8	543.5	538.2	534.7
25°	549.1	541.9	524.1	517.9	512.6
27.5°	531.9	523.1	504.4	496.2	491.0
30°	512.6	503.5	483.2	472.2	467.8
32.5°	493.7	482.7	462.0	449.5	443.8
35°	473.1	461.6	439.9	425.9	419.1
37.5°	453.3	439.3	417.2	400.9	394.0
40°	432.2	417.7	394.5	376.2	370.5
42.5°	409.9	395.0	370.9	353.6	344.4
45°	387.3	373.5	346.8	327.6	320.4
47.5°	363.6	349.3	322.7	303.0	294.8
50°	341.6	325.6	298.2	278.0	270.8
52.5°	317.4	301.2	275.5	253.3	246.1
55°	293.9	278.5	251.6	229.8	222.2
57.5°	269.8	253.3	227.4	206.2	199.5
60°	246.6	229.8	203.8	182.6	175.3
62.5°	222.2	206.2	179.7	160.4	153.2
65°	199.0	182.6	157.1	137.7	130.5
67.5°	175.8	159.5	134.9	116.6	110.9
70°	152.3	135.8	111.7	96.8	91.1
72.5°	129.1	113.2	91.1	77.6	74.3
75°	106.0	91.5	71.3	60.8	57.4
77.5°	82.3	70.8	53.9	45.8	42.9
80°	62.6	51.1	37.6	33.2	32.3
82.5°	43.3	33.2	25.1	23.5	23.1
85°	26.5	17.8	15.5	14.9	14.5
87.5°	11.2	7.7	7.2	7.2	6.7
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)