

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: P888338

Luminaire Tested: **DPT5-4F021-85S40-F-XX-UDD**

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: P888338
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: DPT5-4F021-85S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

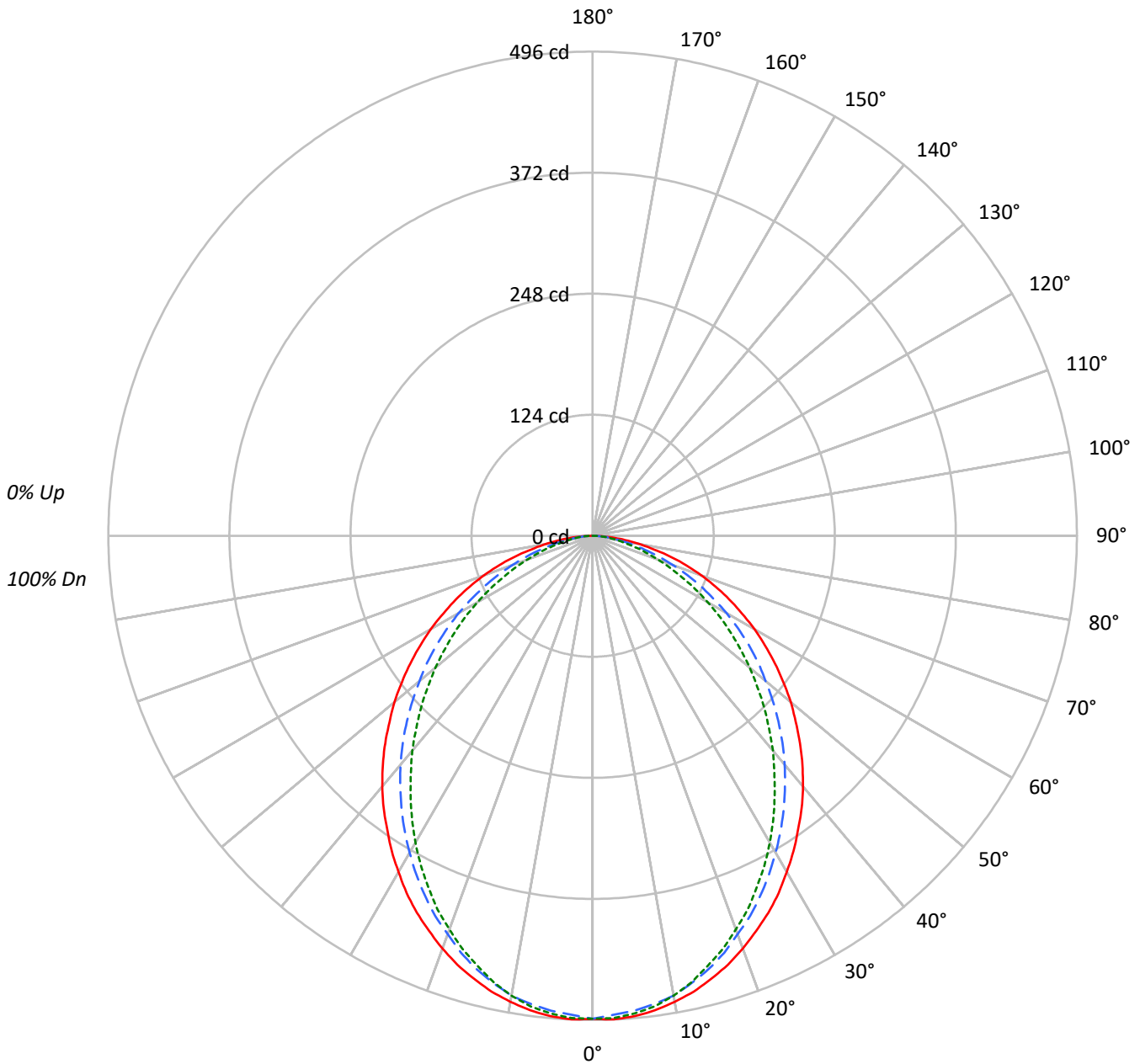
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1169.0 lumens
Efficiency: N/A
Efficacy: 102.5 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): 11.4
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: P888338
CATALOG NUMBER: DPT5-4F021-85S40-F-XX-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P888338

CATALOG NUMBER: DPT5-4F021-85S40-F-XX-UDD

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°	8280	8280	8280
5°	8300	8204	8253
10°	8236	8127	8127
15°	8139	7962	7898
20°	8012	7732	7639
25°	7866	7507	7341
30°	7683	7242	7012
35°	7497	6970	6641
40°	7322	6687	6278
45°	7109	6366	5881
50°	6896	6021	5467
55°	6652	5692	5027
60°	6402	5291	4552
65°	6114	4827	4007
70°	5778	4242	3454
75°	5315	3575	2877
80°	4683	2814	2419
85°	3936	2304	2150



TEST NUMBER: P888338

CATALOG NUMBER: DPT5-4F021-85S40-F-XX-UDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	4.0
10°-20°	130.1	11.1
20°-30°	188.7	16.1
30°-40°	215.0	18.4
40°-50°	209.5	17.9
50°-60°	176.3	15.1
60°-70°	123.6	10.6
70°-80°	63.4	5.4
80°-90°	15.8	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°	365.4	31.3
0°-40°	580.4	49.6
0°-60°	966.3	82.7
0°-90°	1169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1169.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	495	495	495	495	495	
5°	494	493	488	492	491	47
15°	470	468	460	459	456	132
25°	426	420	407	402	398	196
35°	367	358	341	330	325	230
45°	300	290	269	254	248	232
55°	228	216	195	178	172	204
65°	154	142	122	107	101	153
75°	82	71	55	47	44	87
85°	20	14	12	12	11	24
90°	0	0	0	0	0	



TEST NUMBER: P888338

CATALOG NUMBER: DPT5-4F021-85S40-F-XX-UDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	494.8	494.8	494.8	494.8	494.8
2.5°	495.9	494.8	491.1	494.8	494.4
5°	494.1	492.6	488.4	492.1	491.3
7.5°	490.3	488.8	483.9	486.9	486.2
10°	484.7	483.6	478.3	479.5	478.3
12.5°	478.3	476.8	469.3	470.1	468.3
15°	469.8	467.5	459.6	459.3	455.9
17.5°	460.8	457.5	448.0	446.2	443.6
20°	449.9	446.2	434.2	432.4	429.0
22.5°	438.0	434.2	421.6	417.5	414.7
25°	426.0	420.4	406.6	401.7	397.6
27.5°	412.6	405.8	391.2	384.9	380.9
30°	397.6	390.6	374.8	366.3	362.9
32.5°	383.0	374.5	358.4	348.7	344.2
35°	367.0	358.0	341.2	330.4	325.1
37.5°	351.7	340.8	323.6	311.0	305.6
40°	335.2	324.0	306.1	291.8	287.4
42.5°	318.0	306.4	287.7	274.3	267.2
45°	300.4	289.7	269.0	254.1	248.5
47.5°	282.1	271.0	250.3	235.1	228.7
50°	264.9	252.6	231.3	215.7	210.0
52.5°	246.2	233.6	213.7	196.5	190.9
55°	228.0	216.0	195.1	178.3	172.3
57.5°	209.3	196.5	176.4	159.9	154.7
60°	191.3	178.3	158.1	141.6	136.0
62.5°	172.3	159.9	139.4	124.4	118.8
65°	154.4	141.6	121.9	106.8	101.2
67.5°	136.4	123.7	104.6	90.5	86.0
70°	118.1	105.4	86.7	75.1	70.6
72.5°	100.2	87.8	70.6	60.2	57.6
75°	82.2	71.0	55.3	47.1	44.5
77.5°	63.8	54.9	41.8	35.6	33.3
80°	48.6	39.7	29.2	25.8	25.1
82.5°	33.6	25.8	19.5	18.2	18.0
85°	20.5	13.8	12.0	11.6	11.2
87.5°	8.7	6.0	5.6	5.6	5.2
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)