

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: P888052

Luminaire Tested: **DPT5-4F021-61S40-A-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: P888052
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: DPT5-4F021-61S40-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

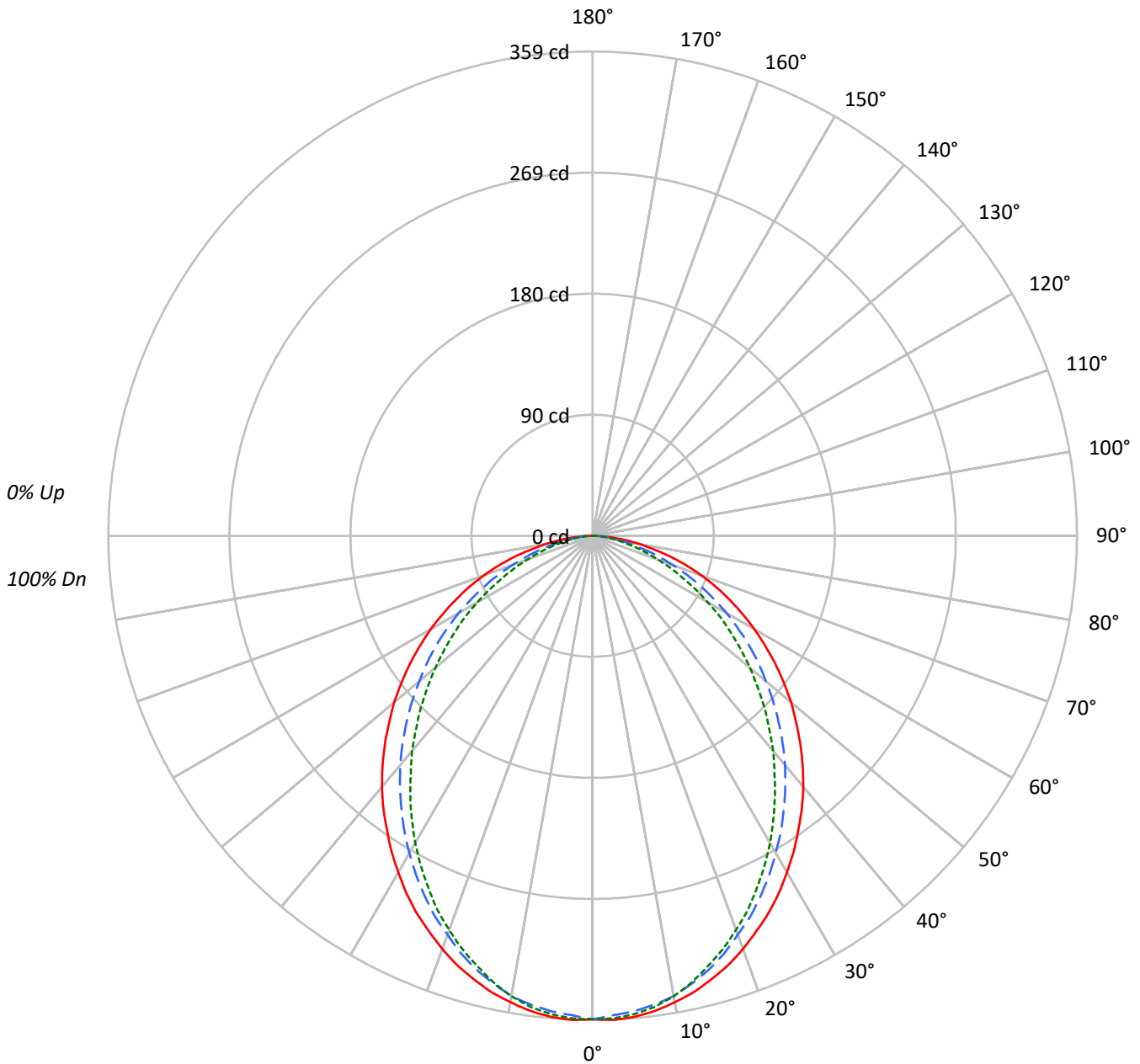
Lumens per Lamp: N/A
Luminaire Lumens: 847.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P888052

CATALOG NUMBER: DPT5-4F021-61S40-A-XX-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P888052

CATALOG NUMBER: DPT5-4F021-61S40-A-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°	5999	5999	5999
5°	6014	5945	5980
10°	5968	5889	5889
15°	5897	5769	5722
20°	5805	5602	5536
25°	5698	5439	5319
30°	5567	5248	5080
35°	5432	5050	4813
40°	5306	4845	4548
45°	5152	4612	4262
50°	4998	4363	3962
55°	4820	4125	3644
60°	4639	3832	3297
65°	4431	3496	2902
70°	4188	3073	2505
75°	3853	2593	2082
80°	3392	2033	1754
85°	2861	1670	1555



TEST NUMBER: P888052

CATALOG NUMBER: DPT5-4F021-61S40-A-XX-UDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.7	4.0
10°-20°	94.3	11.1
20°-30°	136.7	16.1
30°-40°	155.8	18.4
40°-50°	151.8	17.9
50°-60°	127.8	15.1
60°-70°	89.5	10.6
70°-80°	45.9	5.4
80°-90°	11.5	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°	264.8	31.3
0°-40°	420.5	49.6
0°-60°	700.1	82.7
0°-90°	847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	847.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	358	358	358	358	358	
5°	358	357	354	357	356	34
15°	340	339	333	333	330	96
25°	309	305	295	291	288	142
35°	266	259	247	239	236	166
45°	218	210	195	184	180	168
55°	165	156	141	129	125	148
65°	112	103	88	77	73	111
75°	60	51	40	34	32	63
85°	15	10	9	8	8	17
90°	0	0	0	0	0	



TEST NUMBER: P888052

CATALOG NUMBER: DPT5-4F021-61S40-A-XX-UDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	358.5	358.5	358.5	358.5	358.5
2.5°	359.3	358.5	355.8	358.5	358.2
5°	358.0	356.9	353.9	356.6	356.0
7.5°	355.3	354.1	350.6	352.8	352.3
10°	351.2	350.4	346.6	347.4	346.6
12.5°	346.6	345.5	340.0	340.6	339.3
15°	340.4	338.7	333.0	332.8	330.3
17.5°	333.9	331.4	324.6	323.3	321.4
20°	326.0	323.3	314.6	313.3	310.9
22.5°	317.3	314.6	305.5	302.5	300.5
25°	308.6	304.6	294.6	291.1	288.1
27.5°	298.9	294.0	283.5	278.9	275.9
30°	288.1	283.0	271.6	265.4	262.9
32.5°	277.5	271.3	259.7	252.6	249.4
35°	265.9	259.4	247.2	239.4	235.6
37.5°	254.8	246.9	234.5	225.3	221.4
40°	242.9	234.8	221.8	211.5	208.2
42.5°	230.4	222.0	208.4	198.7	193.6
45°	217.7	209.9	194.9	184.1	180.1
47.5°	204.4	196.3	181.4	170.3	165.7
50°	192.0	183.0	167.6	156.3	152.2
52.5°	178.4	169.3	154.8	142.4	138.3
55°	165.2	156.5	141.4	129.2	124.9
57.5°	151.6	142.4	127.8	115.9	112.1
60°	138.6	129.2	114.5	102.6	98.5
62.5°	124.9	115.9	101.0	90.2	86.1
65°	111.9	102.6	88.3	77.4	73.3
67.5°	98.8	89.7	75.8	65.5	62.3
70°	85.6	76.3	62.8	54.4	51.2
72.5°	72.6	63.6	51.2	43.6	41.7
75°	59.6	51.4	40.1	34.2	32.2
77.5°	46.3	39.8	30.3	25.8	24.1
80°	35.2	28.7	21.1	18.7	18.2
82.5°	24.4	18.7	14.1	13.2	13.0
85°	14.9	10.0	8.7	8.4	8.1
87.5°	6.3	4.3	4.1	4.1	3.8
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)