

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: P888063

Luminaire Tested: **DPT5-4F021-85S40-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: P888063
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-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

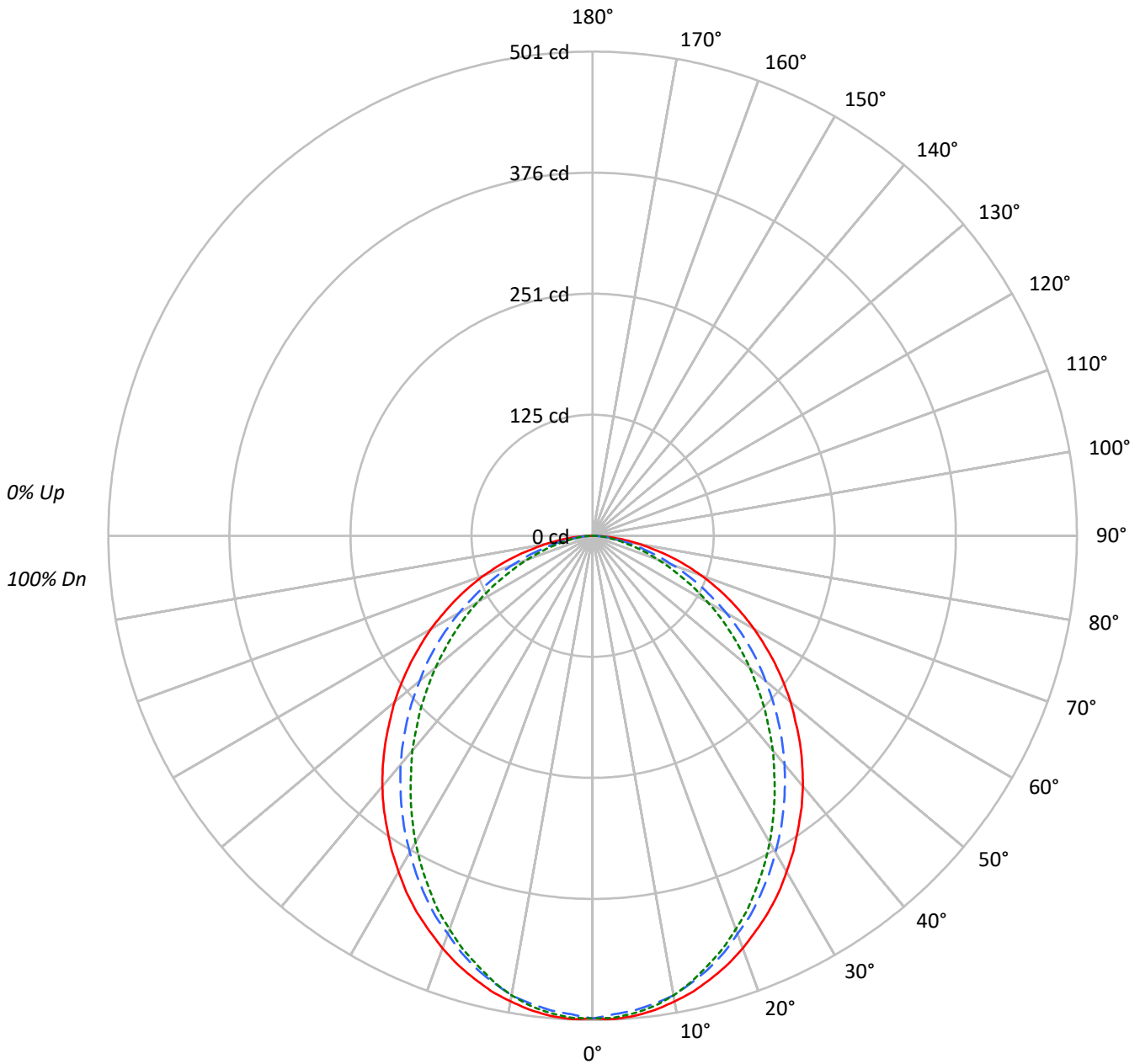
Lumens per Lamp: N/A
Luminaire Lumens: 1180.0 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P888063

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

Luminous Intensity Polar Plot





TEST NUMBER: P888063

CATALOG NUMBER: DPT5-4F021-85S40-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°	8359	8359	8359
5°	8377	8281	8332
10°	8314	8204	8204
15°	8215	8037	7973
20°	8086	7805	7713
25°	7939	7577	7411
30°	7756	7310	7078
35°	7567	7035	6705
40°	7392	6748	6337
45°	7178	6427	5938
50°	6961	6079	5519
55°	6713	5747	5076
60°	6463	5338	4595
65°	6169	4870	4047
70°	5832	4281	3488
75°	5366	3608	2903
80°	4732	2843	2438
85°	3974	2323	2170



TEST NUMBER: P888063

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	4.0
10°-20°	131.4	11.1
20°-30°	190.5	16.1
30°-40°	217.0	18.4
40°-50°	211.5	17.9
50°-60°	178.0	15.1
60°-70°	124.7	10.6
70°-80°	64.0	5.4
80°-90°	15.9	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°	368.8	31.3
0°-40°	585.8	49.6
0°-60°	975.4	82.7
0°-90°	1180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	500	500	500	500	500	
5°	499	497	493	497	496	47
15°	474	472	464	464	460	134
25°	430	424	410	406	401	198
35°	370	361	344	334	328	232
45°	303	292	272	256	251	234
55°	230	218	197	180	174	206
65°	156	143	123	108	102	154
75°	83	72	56	48	45	88
85°	21	14	12	12	11	24
90°	0	0	0	0	0	



TEST NUMBER: P888063

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	499.5	499.5	499.5	499.5	499.5
2.5°	500.6	499.5	495.7	499.5	499.1
5°	498.7	497.2	493.0	496.7	496.0
7.5°	494.9	493.4	488.5	491.5	490.8
10°	489.3	488.1	482.8	484.0	482.8
12.5°	482.8	481.3	473.7	474.5	472.7
15°	474.2	471.9	463.9	463.6	460.2
17.5°	465.1	461.8	452.2	450.4	447.8
20°	454.1	450.4	438.3	436.4	433.1
22.5°	442.1	438.3	425.6	421.4	418.7
25°	430.0	424.3	410.4	405.5	401.4
27.5°	416.5	409.6	394.9	388.6	384.4
30°	401.4	394.2	378.3	369.7	366.3
32.5°	386.6	378.0	361.8	352.0	347.5
35°	370.4	361.4	344.4	333.5	328.2
37.5°	355.0	344.0	326.6	313.9	308.5
40°	338.4	327.1	308.9	294.6	290.1
42.5°	321.0	309.3	290.4	276.9	269.7
45°	303.3	292.4	271.6	256.5	250.9
47.5°	284.7	273.5	252.7	237.3	230.8
50°	267.4	255.0	233.5	217.7	212.0
52.5°	248.5	235.8	215.7	198.4	192.7
55°	230.1	218.0	197.0	180.0	174.0
57.5°	211.2	198.4	178.1	161.4	156.2
60°	193.1	180.0	159.5	143.0	137.3
62.5°	174.0	161.4	140.7	125.6	119.9
65°	155.8	143.0	123.0	107.8	102.2
67.5°	137.6	124.9	105.6	91.3	86.8
70°	119.2	106.4	87.5	75.8	71.3
72.5°	101.1	88.7	71.3	60.7	58.1
75°	83.0	71.7	55.8	47.6	44.9
77.5°	64.4	55.4	42.2	35.9	33.6
80°	49.1	40.0	29.5	26.0	25.3
82.5°	33.9	26.0	19.7	18.4	18.1
85°	20.7	13.9	12.1	11.7	11.3
87.5°	8.7	6.0	5.7	5.7	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)