

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: P888305

Luminaire Tested: **DPT5-4F021-127S40-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: P888305
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: DPT5-4F021-127S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

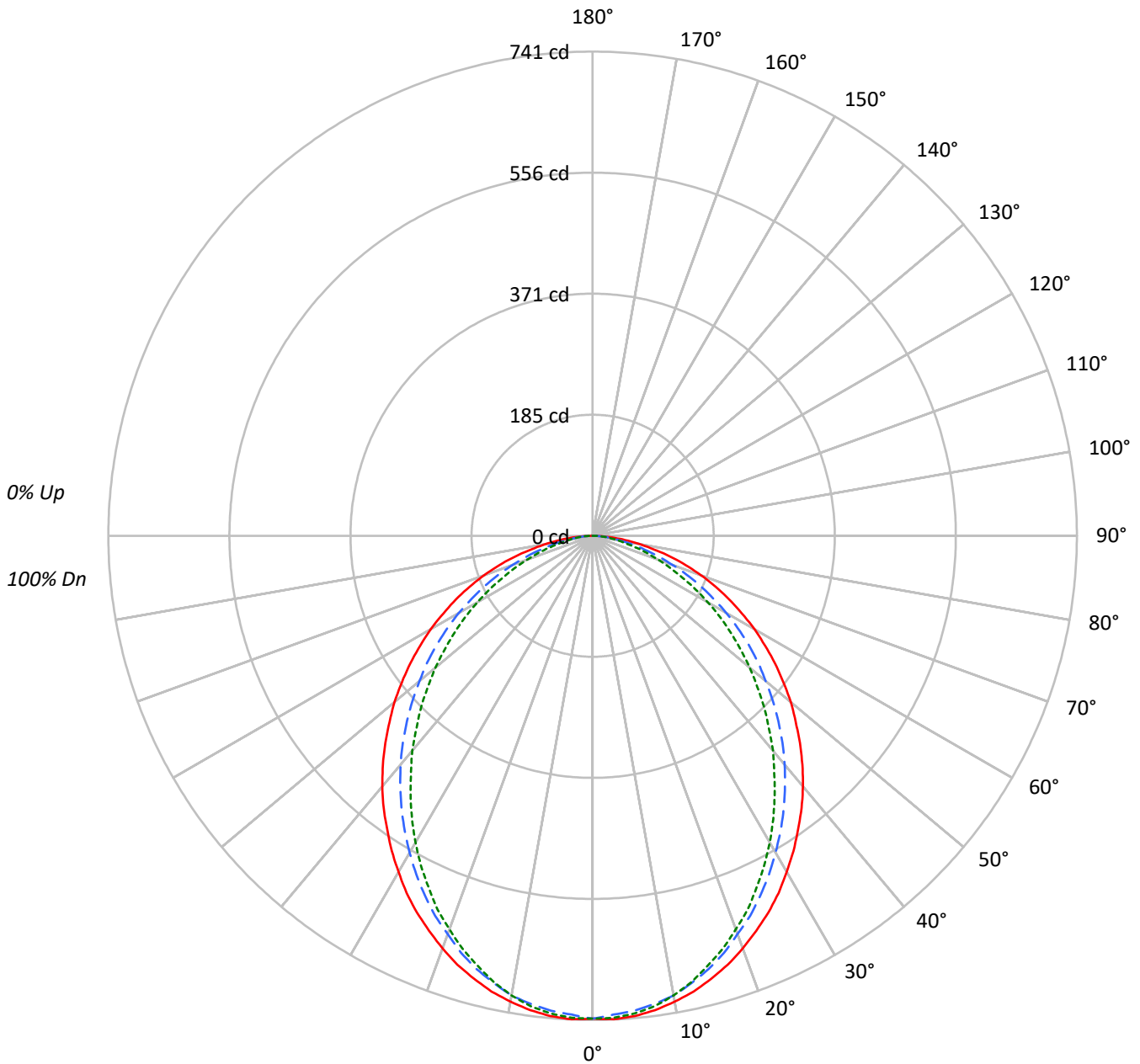
Lumens per Lamp: N/A
Luminaire Lumens: 1746.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 17
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

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Luminous Intensity Polar Plot





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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°	12366	12366	12366
5°	12395	12254	12328
10°	12300	12139	12139
15°	12156	11891	11798
20°	11967	11550	11411
25°	11747	11211	10966
30°	11476	10817	10473
35°	11197	10410	9920
40°	10937	9985	9378
45°	10619	9509	8784
50°	10301	8994	8167
55°	9934	8504	7509
60°	9565	7902	6797
65°	9131	7206	5987
70°	8631	6331	5162
75°	7940	5340	4300
80°	6996	4202	3614
85°	5875	3437	3226



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	4.0
10°-20°	194.4	11.1
20°-30°	281.8	16.1
30°-40°	321.1	18.4
40°-50°	313.0	17.9
50°-60°	263.4	15.1
60°-70°	184.6	10.6
70°-80°	94.6	5.4
80°-90°	23.6	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°	545.8	31.3
0°-40°	866.9	49.6
0°-60°	1443.2	82.7
0°-90°	1746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	738	736	730	735	734	70
15°	702	698	686	686	681	198
25°	636	628	607	600	594	293
35°	548	535	510	494	486	343
45°	449	433	402	380	371	346
55°	340	323	292	266	257	304
65°	231	212	182	160	151	228
75°	123	106	83	70	66	130
85°	31	21	18	17	17	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	739.0	739.0	739.0	739.0	739.0
2.5°	740.7	739.0	733.5	739.0	738.4
5°	737.9	735.7	729.5	735.0	733.9
7.5°	732.3	730.0	722.8	727.2	726.2
10°	723.9	722.3	714.4	716.2	714.4
12.5°	714.4	712.1	700.9	702.1	699.4
15°	701.7	698.3	686.4	685.9	681.0
17.5°	688.2	683.2	669.2	666.5	662.5
20°	672.0	666.5	648.6	645.8	640.8
22.5°	654.1	648.6	629.7	623.5	619.5
25°	636.2	627.8	607.2	600.0	593.9
27.5°	616.3	606.1	584.4	574.9	568.8
30°	593.9	583.3	559.8	547.1	542.0
32.5°	572.0	559.3	535.3	520.8	514.2
35°	548.1	534.8	509.6	493.5	485.6
37.5°	525.2	509.0	483.3	464.5	456.5
40°	500.7	483.9	457.1	435.9	429.3
42.5°	474.9	457.6	429.7	409.7	399.0
45°	448.7	432.7	401.8	379.6	371.2
47.5°	421.3	404.7	373.9	351.1	341.6
50°	395.7	377.3	345.5	322.1	313.7
52.5°	367.8	348.9	319.2	293.5	285.1
55°	340.5	322.6	291.5	266.3	257.4
57.5°	312.6	293.5	263.5	238.9	231.1
60°	285.8	266.3	236.1	211.5	203.1
62.5°	257.4	238.9	208.2	185.8	177.5
65°	230.6	211.5	182.0	159.6	151.2
67.5°	203.7	184.8	156.2	135.1	128.5
70°	176.4	157.4	129.4	112.1	105.5
72.5°	149.6	131.2	105.5	89.9	86.0
75°	122.8	106.0	82.6	70.4	66.5
77.5°	95.4	82.0	62.4	53.1	49.7
80°	72.6	59.2	43.6	38.5	37.5
82.5°	50.2	38.5	29.1	27.2	26.8
85°	30.6	20.6	17.9	17.3	16.8
87.5°	12.9	8.9	8.4	8.4	7.8
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)