

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: P888360

Luminaire Tested: **DPT5-4F029-127S40-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: P888360
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: DPT5-4F029-127S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

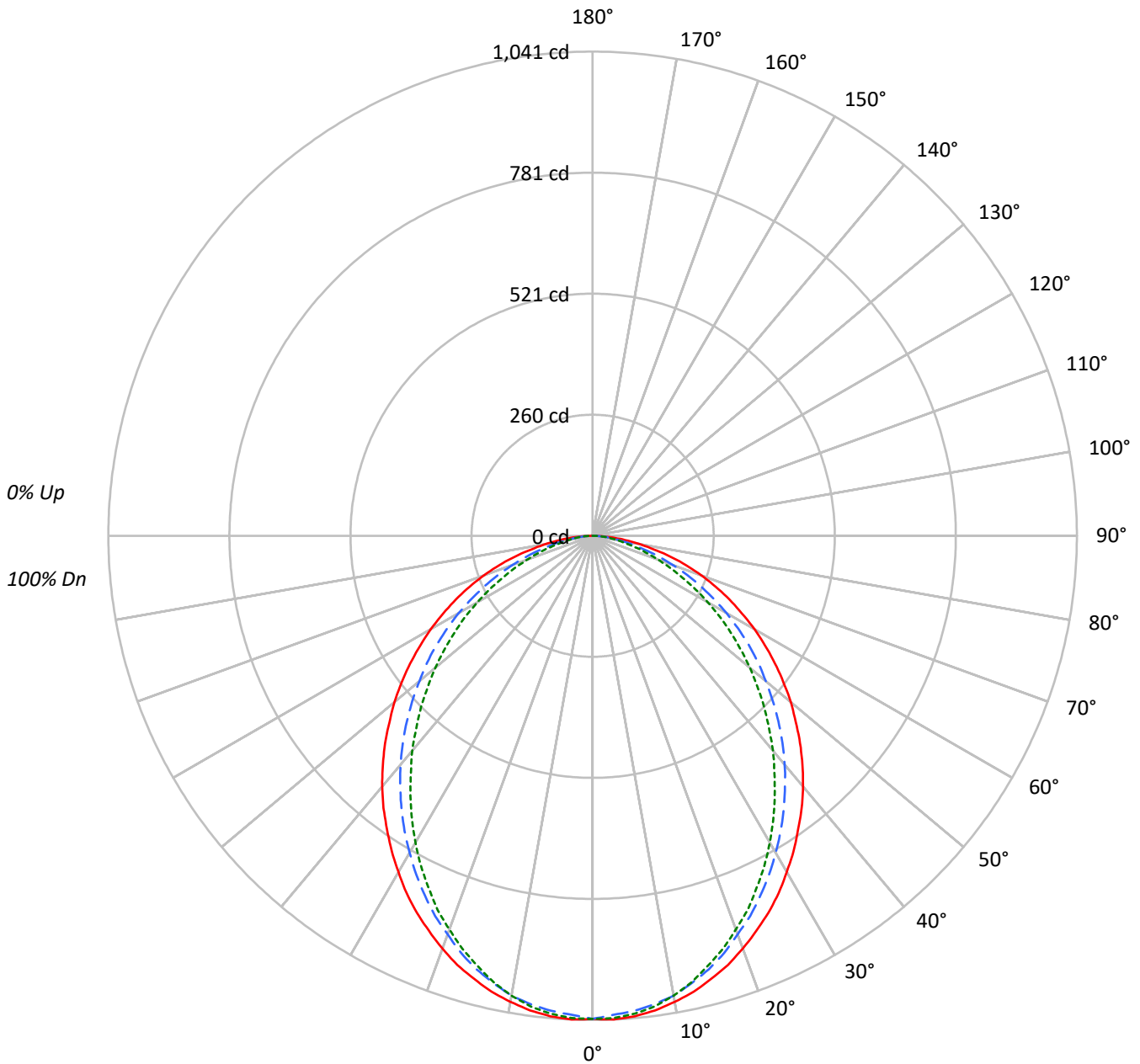
Lumens per Lamp: N/A
Luminaire Lumens: 2454.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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°	12371	12371	12371
5°	12399	12258	12332
10°	12305	12143	12143
15°	12160	11896	11801
20°	11969	11552	11414
25°	11750	11216	10969
30°	11479	10820	10476
35°	11201	10414	9923
40°	10940	9989	9379
45°	10623	9513	8787
50°	10305	8997	8169
55°	9938	8505	7512
60°	9566	7903	6800
65°	9133	7209	5988
70°	8636	6334	5164
75°	7942	5342	4298
80°	6996	4204	3614
85°	5890	3444	3225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	4.0
10°-20°	273.2	11.1
20°-30°	396.1	16.1
30°-40°	451.3	18.4
40°-50°	439.9	17.9
50°-60°	370.2	15.1
60°-70°	259.4	10.6
70°-80°	133.0	5.4
80°-90°	33.2	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°	767.1	31.3
0°-40°	1218.4	49.6
0°-60°	2028.4	82.7
0°-90°	2454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1037	1034	1025	1033	1032	98
15°	986	981	965	964	957	278
25°	894	882	854	843	835	412
35°	770	752	716	694	682	482
45°	631	608	565	534	522	486
55°	479	453	410	374	362	428
65°	324	297	256	224	212	321
75°	173	149	116	99	93	182
85°	43	29	25	24	24	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1038.7	1038.7	1038.7	1038.7	1038.7
2.5°	1041.1	1038.7	1030.9	1038.7	1037.9
5°	1037.1	1034.1	1025.3	1033.1	1031.5
7.5°	1029.3	1026.1	1015.9	1022.1	1020.7
10°	1017.5	1015.2	1004.1	1006.6	1004.1
12.5°	1004.1	1000.9	985.2	986.8	983.0
15°	986.2	981.4	964.8	964.1	957.1
17.5°	967.3	960.3	940.5	936.7	931.2
20°	944.4	936.7	911.5	907.6	900.6
22.5°	919.4	911.5	885.1	876.3	870.7
25°	894.2	882.4	853.5	843.3	834.7
27.5°	866.1	851.9	821.3	808.1	799.5
30°	834.7	819.9	786.8	768.9	761.8
32.5°	804.0	786.1	752.3	732.0	722.7
35°	770.4	751.6	716.3	693.6	682.5
37.5°	738.2	715.4	679.3	652.8	641.6
40°	703.7	680.2	642.5	612.6	603.3
42.5°	667.5	643.2	603.9	575.8	560.8
45°	630.7	608.1	564.8	533.5	521.7
47.5°	592.1	568.8	525.5	493.5	480.1
50°	556.2	530.3	485.6	452.7	440.9
52.5°	516.9	490.4	448.6	412.6	400.8
55°	478.6	453.4	409.6	374.3	361.8
57.5°	439.3	412.6	370.4	335.7	324.8
60°	401.6	374.3	331.8	297.3	285.5
62.5°	361.8	335.7	292.6	261.2	249.4
65°	324.1	297.3	255.8	224.2	212.5
67.5°	286.2	259.8	219.6	189.9	180.6
70°	248.0	221.2	181.9	157.6	148.3
72.5°	210.3	184.4	148.3	126.3	120.9
75°	172.6	149.0	116.1	99.0	93.4
77.5°	134.0	115.3	87.7	74.7	69.9
80°	102.0	83.2	61.3	54.1	52.7
82.5°	70.6	54.1	40.9	38.3	37.7
85°	43.1	29.0	25.2	24.3	23.6
87.5°	18.2	12.5	11.8	11.8	10.9
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)