

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: P888294

Luminaire Tested: **DPT5-4F021-109S40-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: P888294  
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: DPT5-4F021-109S40-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

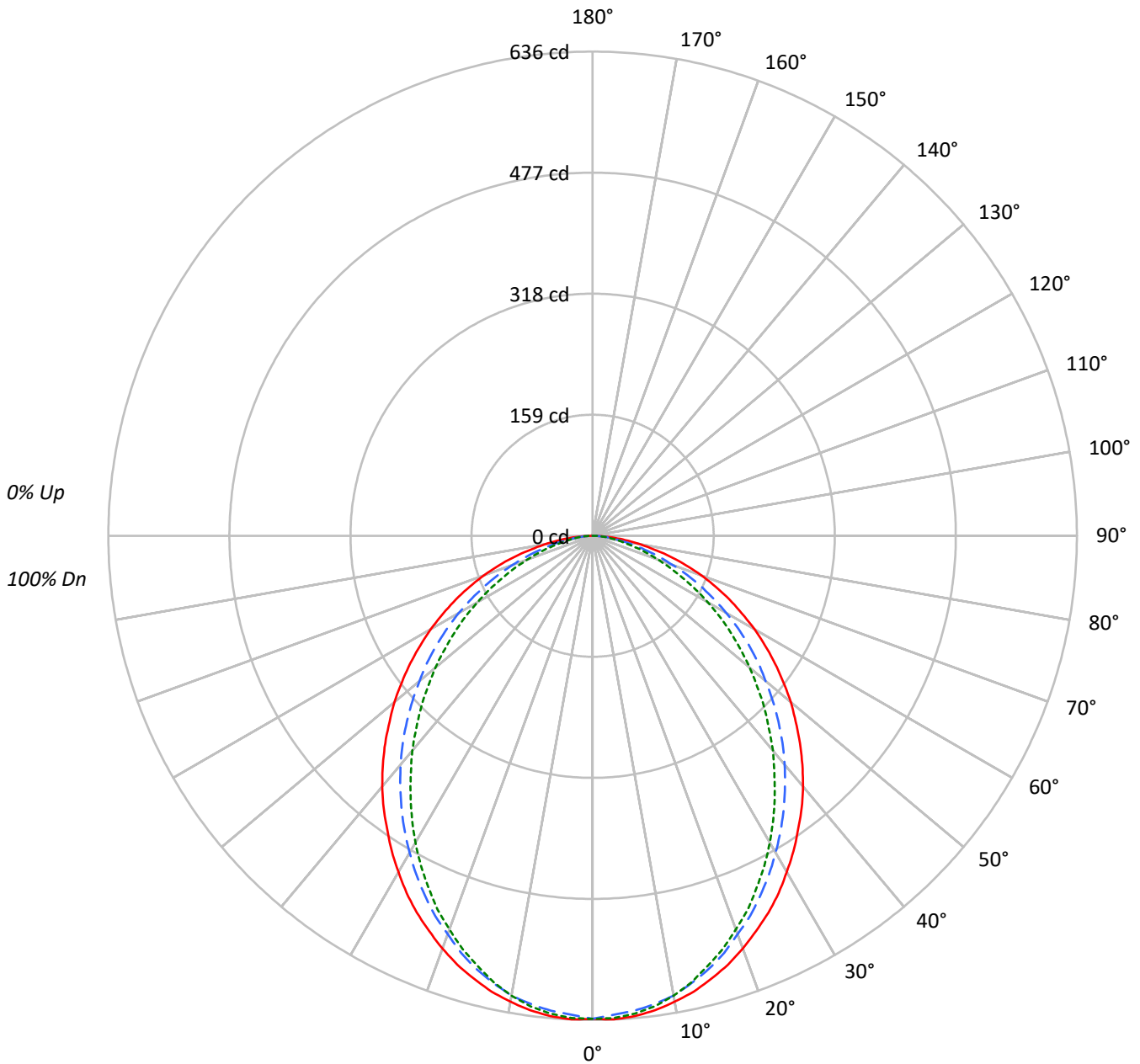
Lumens per Lamp: N/A  
Luminaire Lumens: 1499.0 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P888294

CATALOG NUMBER: DPT5-4F021-109S40-F-XX-UDD

### 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°	10618	10618	10618
5°	10641	10520	10584
10°	10560	10421	10421
15°	10436	10209	10128
20°	10273	9915	9796
25°	10085	9625	9415
30°	9853	9286	8991
35°	9613	8937	8516
40°	9391	8572	8050
45°	9116	8164	7542
50°	8843	7721	7011
55°	8531	7299	6448
60°	8210	6784	5837
65°	7840	6189	5139
70°	7412	5436	4433
75°	6815	4584	3692
80°	6004	3604	3103
85°	5050	2957	2765



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.7	4.0
10°-20°	166.9	11.1
20°-30°	242.0	16.1
30°-40°	275.7	18.4
40°-50°	268.7	17.9
50°-60°	226.1	15.1
60°-70°	158.5	10.6
70°-80°	81.2	5.4
80°-90°	20.3	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°	468.5	31.3
0°-40°	744.2	49.6
0°-60°	1239.0	82.7
0°-90°	1499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1499.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	634	632	626	631	630	60
15°	602	600	589	589	585	170
25°	546	539	521	515	510	251
35°	471	459	438	424	417	295
45°	385	372	345	326	319	297
55°	292	277	250	229	221	261
65°	198	182	156	137	130	196
75°	105	91	71	60	57	111
85°	26	18	15	15	14	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	634.5	634.5	634.5	634.5	634.5
2.5°	635.9	634.5	629.7	634.5	634.0
5°	633.5	631.7	626.3	631.0	630.1
7.5°	628.7	626.8	620.5	624.4	623.5
10°	621.5	620.1	613.3	614.9	613.3
12.5°	613.3	611.4	601.8	602.8	600.5
15°	602.4	599.5	589.3	588.9	584.6
17.5°	590.9	586.6	574.5	572.2	568.8
20°	576.9	572.2	556.8	554.4	550.1
22.5°	561.6	556.8	540.6	535.3	531.8
25°	546.2	539.0	521.3	515.1	509.9
27.5°	529.1	520.4	501.7	493.6	488.4
30°	509.9	500.8	480.6	469.7	465.3
32.5°	491.1	480.2	459.6	447.1	441.4
35°	470.6	459.1	437.5	423.6	416.9
37.5°	450.9	437.0	414.9	398.8	391.9
40°	429.9	415.5	392.4	374.2	368.5
42.5°	407.7	392.9	368.9	351.7	342.6
45°	385.2	371.5	345.0	325.9	318.7
47.5°	361.7	347.5	321.0	301.4	293.2
50°	339.7	323.9	296.6	276.5	269.3
52.5°	315.7	299.6	274.0	252.0	244.8
55°	292.4	277.0	250.2	228.6	221.0
57.5°	268.4	252.0	226.2	205.1	198.4
60°	245.3	228.6	202.7	181.6	174.4
62.5°	221.0	205.1	178.8	159.6	152.4
65°	198.0	181.6	156.3	137.0	129.8
67.5°	174.8	158.7	134.1	116.0	110.3
70°	151.5	135.1	111.1	96.3	90.6
72.5°	128.4	112.6	90.6	77.2	73.9
75°	105.4	91.0	70.9	60.4	57.1
77.5°	81.9	70.4	53.6	45.6	42.7
80°	62.3	50.8	37.4	33.1	32.2
82.5°	43.1	33.1	25.0	23.4	23.0
85°	26.3	17.7	15.4	14.8	14.4
87.5°	11.1	7.6	7.2	7.2	6.7
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)