

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: P888380

Luminaire Tested: **DPT5-4F029-61S30-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: P888380  
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: DPT5-4F029-61S30-F-XX-UDD  
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

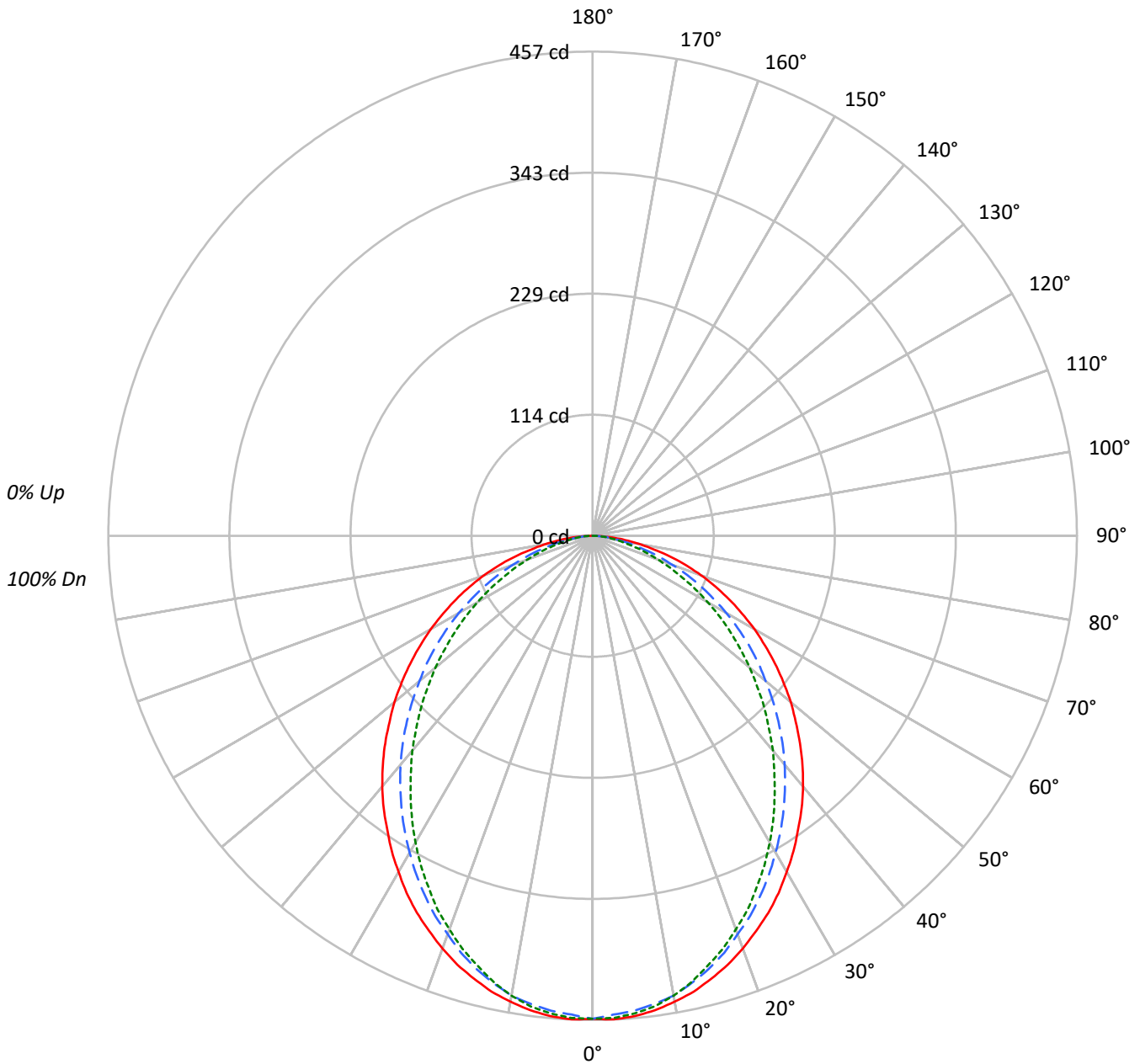
Lumens per Lamp: N/A  
Luminaire Lumens: 1077.0 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.5  
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

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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°	5430	5430	5430
5°	5442	5380	5412
10°	5400	5330	5330
15°	5336	5220	5178
20°	5253	5071	5010
25°	5158	4923	4813
30°	5037	4749	4597
35°	4916	4570	4354
40°	4802	4384	4117
45°	4662	4175	3857
50°	4523	3948	3585
55°	4362	3733	3297
60°	4199	3468	2985
65°	4007	3165	2626
70°	3789	2779	2267
75°	3483	2347	1887
80°	3073	1845	1584
85°	2583	1503	1407



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.9	4.0
10°-20°	119.9	11.1
20°-30°	173.8	16.1
30°-40°	198.1	18.4
40°-50°	193.0	17.9
50°-60°	162.5	15.1
60°-70°	113.8	10.6
70°-80°	58.4	5.4
80°-90°	14.6	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°	336.6	31.3
0°-40°	534.7	49.6
0°-60°	890.2	82.7
0°-90°	1077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1077.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	456	456	456	456	456	
5°	455	454	450	453	453	43
15°	433	431	423	423	420	122
25°	392	387	375	370	366	181
35°	338	330	314	304	300	212
45°	277	267	248	234	229	213
55°	210	199	180	164	159	188
65°	142	130	112	98	93	141
75°	76	65	51	43	41	80
85°	19	13	11	11	10	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	455.9	455.9	455.9	455.9	455.9
2.5°	456.9	455.9	452.4	455.9	455.5
5°	455.2	453.8	450.0	453.4	452.7
7.5°	451.7	450.3	445.8	448.6	448.0
10°	446.5	445.5	440.7	441.8	440.7
12.5°	440.7	439.3	432.4	433.1	431.4
15°	432.8	430.7	423.4	423.1	420.0
17.5°	424.5	421.4	412.8	411.1	408.7
20°	414.5	411.1	400.1	398.3	395.3
22.5°	403.5	400.1	388.4	384.6	382.1
25°	392.5	387.3	374.6	370.1	366.3
27.5°	380.1	373.9	360.5	354.6	350.9
30°	366.3	359.8	345.3	337.5	334.3
32.5°	352.9	345.0	330.2	321.2	317.2
35°	338.1	329.9	314.3	304.4	299.5
37.5°	324.0	314.0	298.1	286.5	281.6
40°	308.9	298.5	282.0	268.9	264.8
42.5°	293.0	282.3	265.0	252.7	246.1
45°	276.8	266.9	247.9	234.1	229.0
47.5°	259.9	249.7	230.6	216.6	210.7
50°	244.1	232.7	213.1	198.7	193.5
52.5°	226.9	215.2	196.9	181.1	175.9
55°	210.1	199.0	179.8	164.3	158.8
57.5°	192.8	181.1	162.5	147.3	142.5
60°	176.3	164.3	145.6	130.5	125.3
62.5°	158.8	147.3	128.4	114.6	109.5
65°	142.2	130.5	112.3	98.4	93.2
67.5°	125.6	114.0	96.4	83.3	79.3
70°	108.8	97.1	79.8	69.2	65.1
72.5°	92.3	80.9	65.1	55.4	53.1
75°	75.7	65.4	51.0	43.4	41.0
77.5°	58.8	50.6	38.5	32.8	30.7
80°	44.8	36.5	26.9	23.8	23.1
82.5°	31.0	23.8	17.9	16.8	16.5
85°	18.9	12.7	11.0	10.7	10.3
87.5°	8.0	5.5	5.2	5.2	4.8
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)