

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: P888119

Luminaire Tested: **DPT5-4F029-85V60-A-XX-UDD\_2700K**

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: P888119  
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: DPT5-4F029-85V60-A-XX-UDD\_2700K  
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

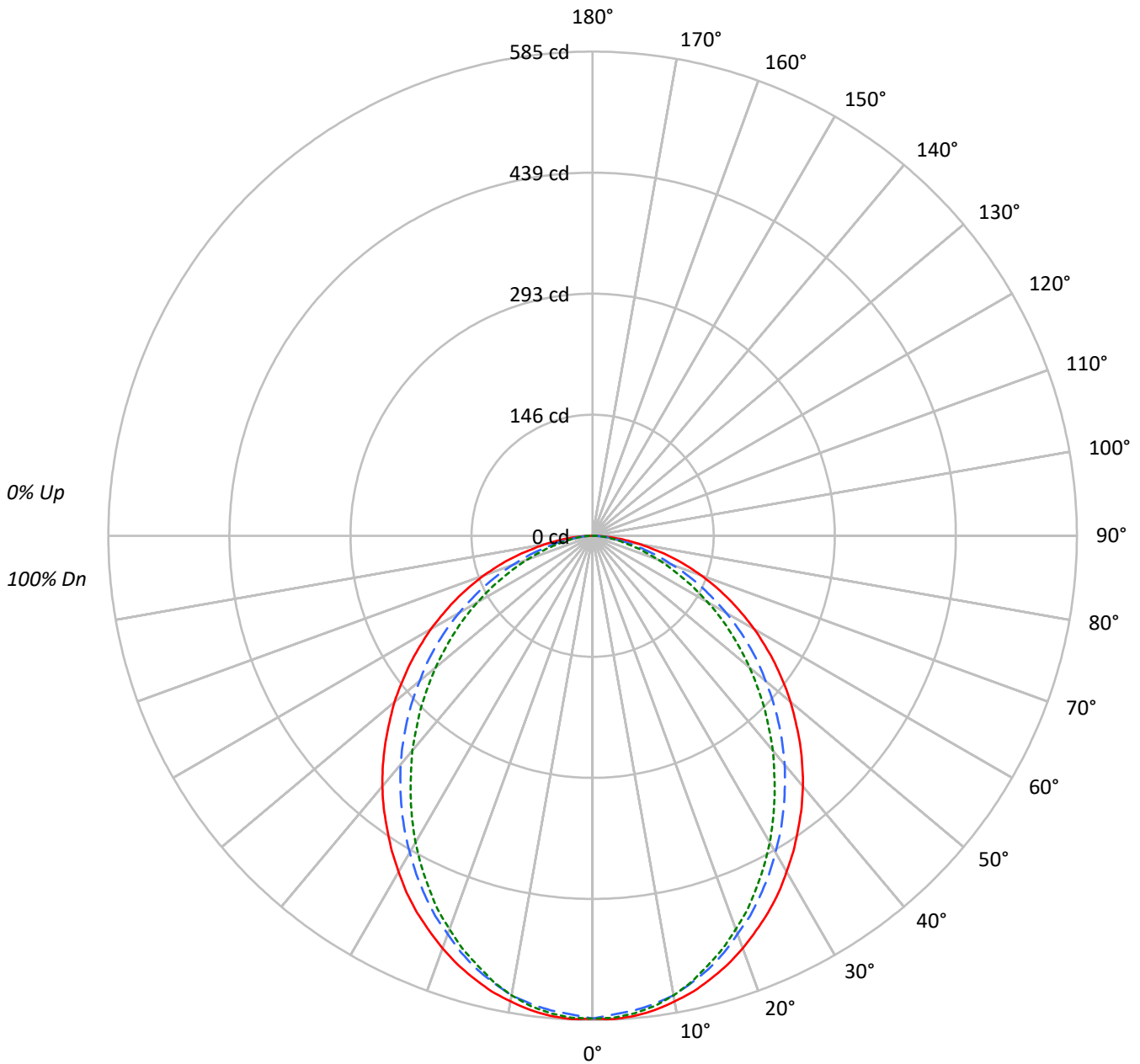
Lumens per Lamp: N/A  
Luminaire Lumens: 1378.0 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.1  
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°	6947	6947	6947
5°	6963	6884	6924
10°	6909	6818	6818
15°	6828	6680	6626
20°	6721	6488	6409
25°	6598	6298	6159
30°	6446	6076	5883
35°	6290	5848	5571
40°	6144	5609	5267
45°	5966	5341	4933
50°	5786	5053	4588
55°	5581	4776	4217
60°	5371	4438	3818
65°	5129	4050	3362
70°	4847	3555	2901
75°	4459	3000	2416
80°	3930	2359	2030
85°	3307	1927	1804



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.9	4.0
10°-20°	153.4	11.1
20°-30°	222.4	16.1
30°-40°	253.4	18.4
40°-50°	247.0	17.9
50°-60°	207.9	15.1
60°-70°	145.7	10.6
70°-80°	74.7	5.4
80°-90°	18.6	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°	430.7	31.3
0°-40°	684.2	49.6
0°-60°	1139.0	82.7
0°-90°	1378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1378.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	583	583	583	583	583	
5°	582	581	576	580	579	55
15°	554	551	542	541	537	156
25°	502	496	479	474	469	231
35°	433	422	402	390	383	271
45°	354	342	317	300	293	273
55°	269	255	230	210	203	240
65°	182	167	144	126	119	180
75°	97	84	65	56	52	102
85°	24	16	14	14	13	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	583.3	583.3	583.3	583.3	583.3
2.5°	584.6	583.3	578.9	583.3	582.8
5°	582.4	580.7	575.8	580.1	579.2
7.5°	578.0	576.2	570.5	574.0	573.1
10°	571.3	570.0	563.8	565.2	563.8
12.5°	563.8	562.0	553.2	554.1	552.0
15°	553.8	551.1	541.8	541.4	537.4
17.5°	543.2	539.2	528.1	526.0	522.9
20°	530.3	526.0	511.9	509.7	505.7
22.5°	516.3	511.9	497.0	492.1	488.9
25°	502.1	495.5	479.3	473.5	468.7
27.5°	486.4	478.4	461.2	453.8	448.9
30°	468.7	460.4	441.8	431.8	427.8
32.5°	451.5	441.4	422.5	411.0	405.8
35°	432.6	422.1	402.2	389.5	383.2
37.5°	414.5	401.7	381.4	366.6	360.3
40°	395.2	381.9	360.8	344.0	338.8
42.5°	374.8	361.2	339.1	323.3	314.9
45°	354.2	341.5	317.1	299.6	292.9
47.5°	332.5	319.4	295.1	277.1	269.6
50°	312.3	297.8	272.7	254.2	247.6
52.5°	290.3	275.4	251.9	231.7	225.0
55°	268.8	254.6	230.0	210.2	203.1
57.5°	246.7	231.7	208.0	188.5	182.4
60°	225.5	210.2	186.3	166.9	160.3
62.5°	203.1	188.5	164.3	146.7	140.1
65°	182.0	166.9	143.7	125.9	119.3
67.5°	160.7	145.9	123.3	106.6	101.4
70°	139.2	124.2	102.1	88.5	83.3
72.5°	118.1	103.5	83.3	70.9	67.9
75°	96.9	83.7	65.2	55.6	52.5
77.5°	75.3	64.7	49.3	41.9	39.2
80°	57.3	46.7	34.4	30.4	29.6
82.5°	39.6	30.4	23.0	21.5	21.2
85°	24.2	16.3	14.1	13.6	13.2
87.5°	10.2	7.0	6.6	6.6	6.1
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)