

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: P888123

Luminaire Tested: **DPT5-4F029-85V60-A-XX-UDD_4500K**

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: P888123
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_4500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

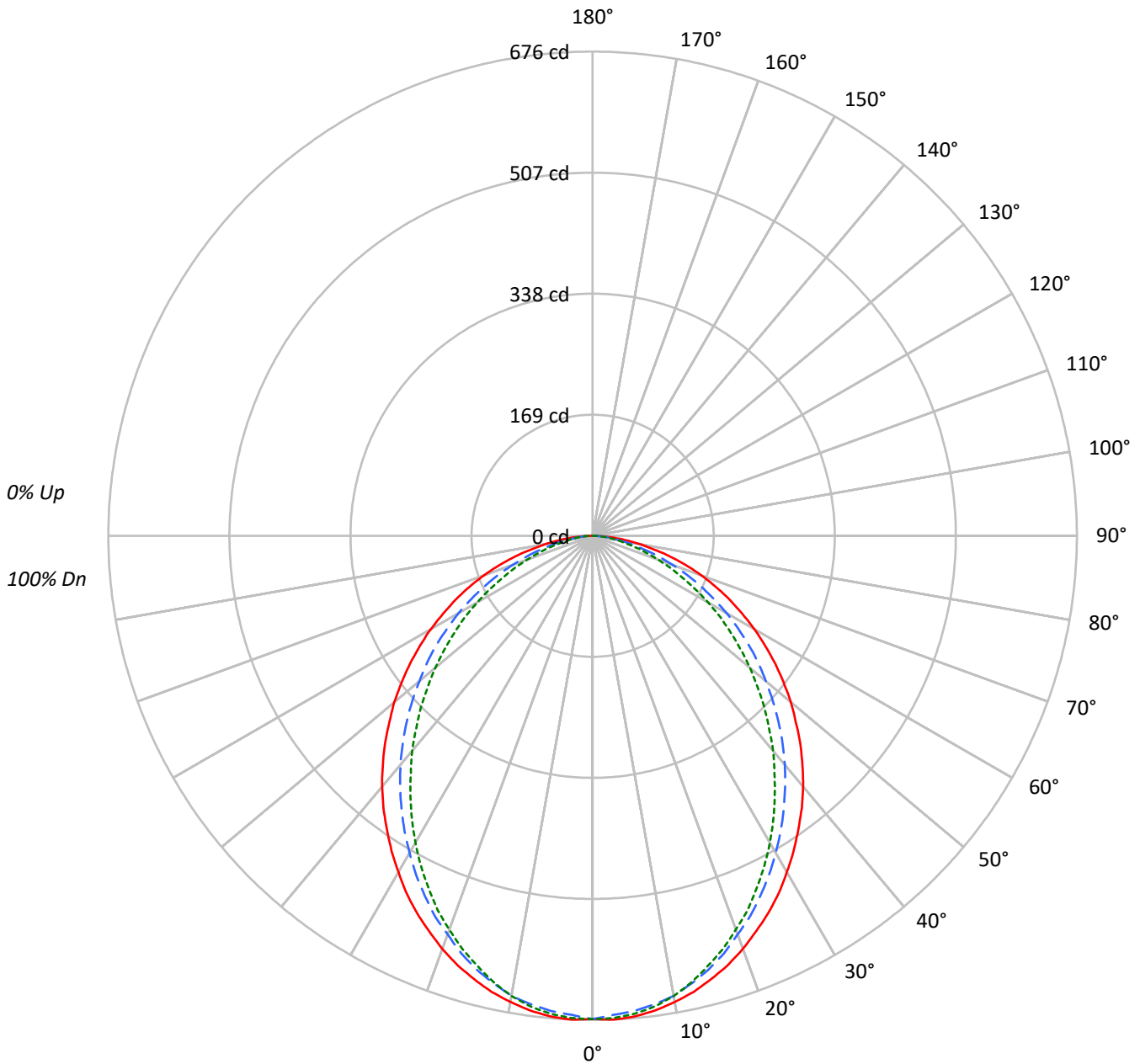
Lumens per Lamp: N/A
Luminaire Lumens: 1594.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2.31' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 16.1
Input Voltage (V): NR
Input Current (Ain): 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: P888123

CATALOG NUMBER: DPT5-4F029-85V60-A-XX-UDD_4500K

Luminous Intensity Polar Plot





TEST NUMBER: P888123

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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°	8035	8035	8035
5°	8054	7962	8010
10°	7992	7887	7887
15°	7898	7727	7665
20°	7775	7504	7414
25°	7632	7285	7125
30°	7456	7029	6805
35°	7275	6764	6445
40°	7106	6488	6093
45°	6900	6178	5708
50°	6694	5844	5306
55°	6455	5525	4879
60°	6214	5133	4418
65°	5932	4684	3889
70°	5610	4116	3353
75°	5158	3470	2793
80°	4547	2730	2346
85°	3826	2241	2091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	4.0
10°-20°	177.4	11.1
20°-30°	257.3	16.1
30°-40°	293.1	18.4
40°-50°	285.7	17.9
50°-60°	240.5	15.1
60°-70°	168.5	10.6
70°-80°	86.4	5.4
80°-90°	21.6	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°	498.2	31.3
0°-40°	791.4	49.6
0°-60°	1317.5	82.7
0°-90°	1594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	675	675	675	675	675	
5°	674	672	666	671	670	64
15°	641	638	627	626	622	181
25°	581	573	554	548	542	267
35°	500	488	465	450	443	313
45°	410	395	367	346	339	316
55°	311	294	266	243	235	278
65°	210	193	166	146	138	208
75°	112	97	75	64	61	119
85°	28	19	16	16	15	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	674.7	674.7	674.7	674.7	674.7
2.5°	676.2	674.7	669.6	674.7	674.1
5°	673.7	671.7	666.0	671.0	670.0
7.5°	668.6	666.5	659.9	663.9	663.0
10°	660.9	659.4	652.2	653.8	652.2
12.5°	652.2	650.1	639.9	641.0	638.5
15°	640.6	637.5	626.7	626.2	621.7
17.5°	628.3	623.8	610.9	608.4	604.9
20°	613.5	608.4	592.1	589.5	585.0
22.5°	597.2	592.1	574.9	569.2	565.5
25°	580.8	573.2	554.4	547.8	542.2
27.5°	562.6	553.3	533.5	524.9	519.3
30°	542.2	532.5	511.1	499.5	494.8
32.5°	522.2	510.6	488.7	475.5	469.4
35°	500.4	488.2	465.2	450.5	443.3
37.5°	479.5	464.7	441.2	424.0	416.8
40°	457.1	441.8	417.3	397.9	391.9
42.5°	433.6	417.8	392.3	374.0	364.3
45°	409.7	395.0	366.8	346.5	338.9
47.5°	384.6	369.5	341.3	320.5	311.8
50°	361.3	344.4	315.4	294.1	286.4
52.5°	335.7	318.5	291.4	268.0	260.3
55°	310.9	294.5	266.1	243.1	235.0
57.5°	285.4	268.0	240.6	218.1	211.0
60°	260.9	243.1	215.5	193.1	185.5
62.5°	235.0	218.1	190.1	169.7	162.0
65°	210.5	193.1	166.2	145.7	138.0
67.5°	185.9	168.7	142.6	123.4	117.3
70°	161.1	143.7	118.2	102.4	96.3
72.5°	136.6	119.8	96.3	82.0	78.5
75°	112.1	96.8	75.4	64.3	60.7
77.5°	87.1	74.9	57.0	48.5	45.4
80°	66.3	54.1	39.8	35.2	34.2
82.5°	45.8	35.2	26.6	24.9	24.5
85°	28.0	18.8	16.4	15.8	15.3
87.5°	11.8	8.1	7.7	7.7	7.1
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)