

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: P888353

Luminaire Tested: **DPT5-4F029-109V60-F-XX-UDD_4000K**

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: P888353
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: DPT5-4F029-109V60-F-XX-UDD_4000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

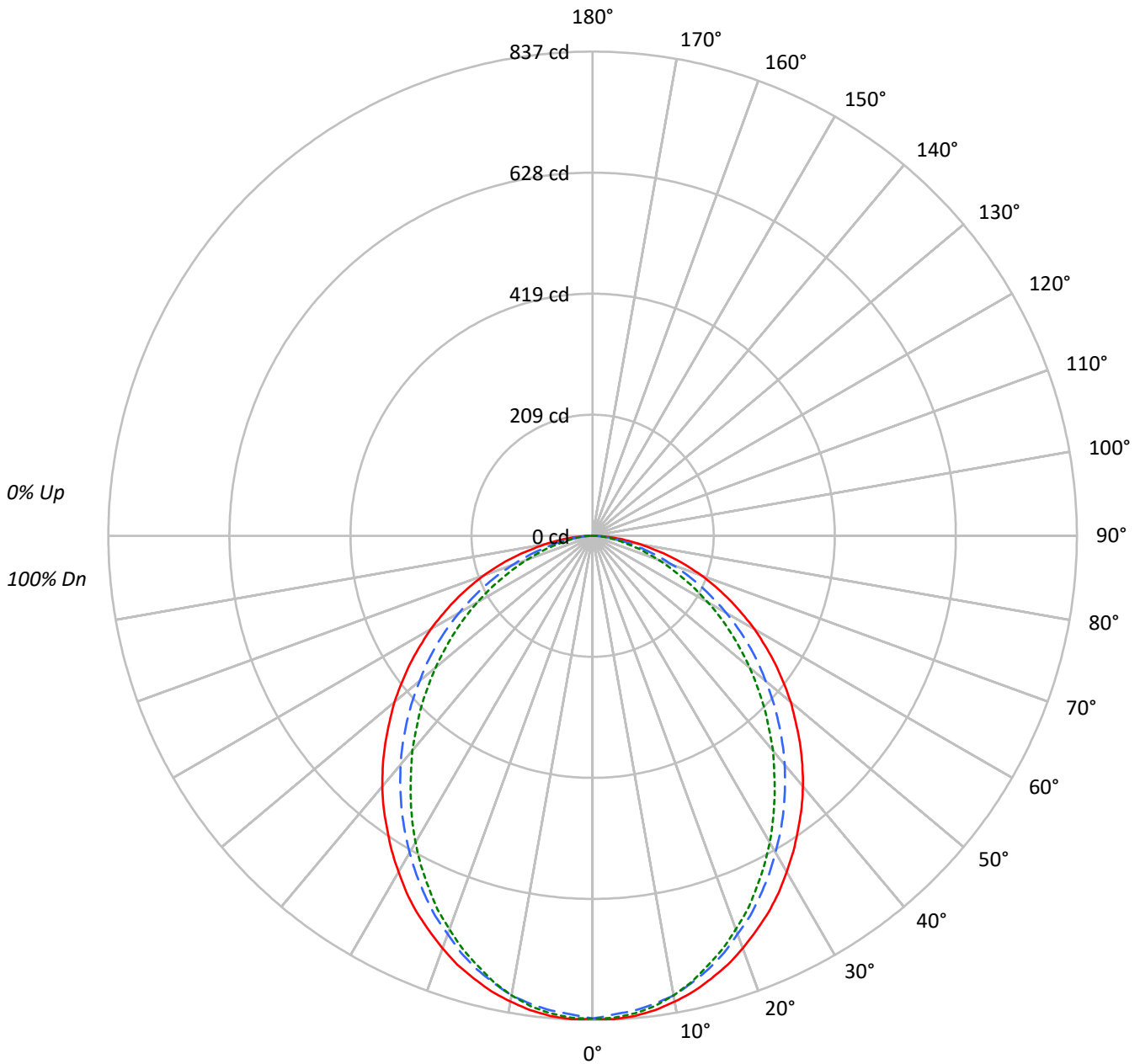
Lumens per Lamp: N/A
Luminaire Lumens: 1972.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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°	9941	9941	9941
5°	9963	9850	9910
10°	9888	9758	9758
15°	9771	9559	9483
20°	9618	9284	9172
25°	9443	9012	8815
30°	9225	8695	8419
35°	9001	8369	7973
40°	8792	8027	7537
45°	8536	7643	7060
50°	8280	7230	6564
55°	7986	6835	6036
60°	7689	6350	5464
65°	7338	5794	4810
70°	6940	5091	4151
75°	6382	4293	3456
80°	5624	3374	2901
85°	4728	2760	2583



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.6	4.0
10°-20°	219.5	11.1
20°-30°	318.3	16.1
30°-40°	362.7	18.4
40°-50°	353.5	17.9
50°-60°	297.5	15.1
60°-70°	208.5	10.6
70°-80°	106.9	5.4
80°-90°	26.7	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°	616.4	31.3
0°-40°	979.1	49.6
0°-60°	1630.0	82.7
0°-90°	1972.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1972.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	835	835	835	835	835	
5°	833	831	824	830	829	79
15°	792	789	775	775	769	223
25°	719	709	686	678	671	331
35°	619	604	576	557	548	388
45°	507	489	454	429	419	391
55°	385	364	329	301	291	344
65°	260	239	206	180	171	258
75°	139	120	93	80	75	147
85°	35	23	20	20	19	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	834.7	834.7	834.7	834.7	834.7
2.5°	836.6	834.7	828.4	834.7	834.0
5°	833.4	831.0	823.9	830.1	828.9
7.5°	827.1	824.5	816.3	821.4	820.2
10°	817.6	815.8	806.9	808.9	806.9
12.5°	806.9	804.3	791.7	793.0	789.9
15°	792.5	788.6	775.3	774.7	769.1
17.5°	777.3	771.7	755.8	752.7	748.3
20°	758.9	752.7	732.5	729.3	723.7
22.5°	738.8	732.5	711.2	704.2	699.6
25°	718.6	709.1	685.8	677.7	670.8
27.5°	696.0	684.6	660.0	649.4	642.5
30°	670.8	658.8	632.3	617.9	612.2
32.5°	646.1	631.7	604.6	588.2	580.7
35°	619.1	604.0	575.6	557.3	548.4
37.5°	593.2	574.9	545.9	524.6	515.6
40°	565.5	546.6	516.3	492.3	484.8
42.5°	536.4	516.9	485.3	462.7	450.7
45°	506.8	488.7	453.8	428.7	419.2
47.5°	475.8	457.1	422.3	396.5	385.8
50°	446.9	426.1	390.2	363.8	354.3
52.5°	415.4	394.1	360.5	331.5	322.0
55°	384.6	364.4	329.2	300.8	290.7
57.5°	353.0	331.5	297.6	269.8	261.0
60°	322.8	300.8	266.6	238.9	229.4
62.5°	290.7	269.8	235.2	209.9	200.4
65°	260.4	238.9	205.6	180.2	170.7
67.5°	230.0	208.7	176.5	152.6	145.1
70°	199.3	177.7	146.2	126.6	119.2
72.5°	169.0	148.2	119.2	101.5	97.2
75°	138.7	119.7	93.3	79.5	75.1
77.5°	107.7	92.6	70.5	60.0	56.1
80°	82.0	66.9	49.2	43.5	42.3
82.5°	56.7	43.5	32.9	30.8	30.3
85°	34.6	23.3	20.2	19.5	18.9
87.5°	14.6	10.1	9.5	9.5	8.8
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)