

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: P888356

Luminaire Tested: **DPT5-4F029-109V60-F-XX-UDD_6500K**

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: P888356
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_6500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

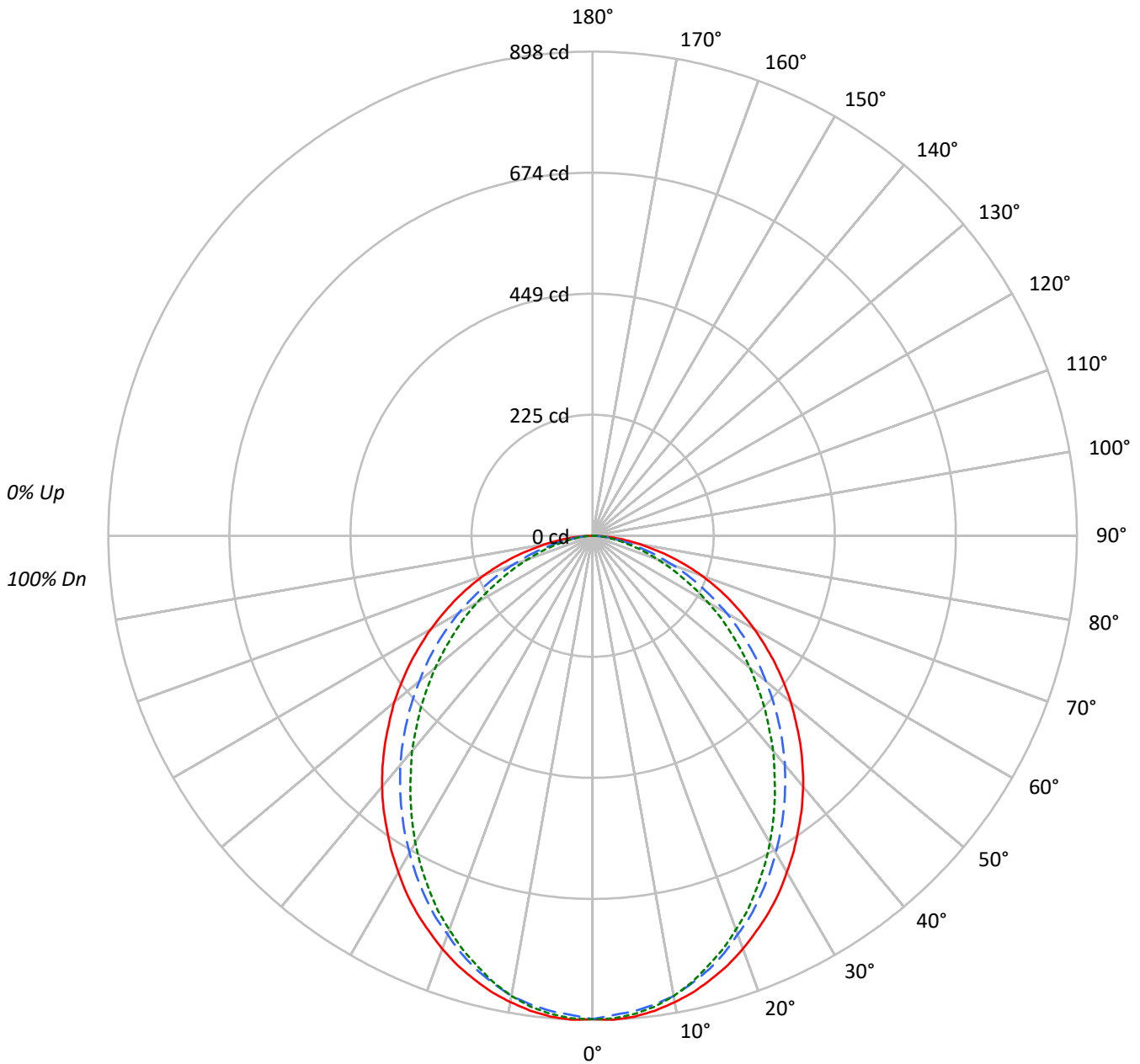
Lumens per Lamp: N/A
Luminaire Lumens: 2118.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P888356

CATALOG NUMBER: DPT5-4F029-109V60-F-XX-UDD_6500K

Luminous Intensity Polar Plot





TEST NUMBER: P888356

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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°	10677	10677	10677
5°	10701	10580	10642
10°	10620	10480	10480
15°	10495	10267	10184
20°	10331	9971	9851
25°	10142	9680	9467
30°	9907	9339	9042
35°	9667	8988	8563
40°	9443	8621	8095
45°	9167	8209	7584
50°	8893	7765	7052
55°	8578	7342	6482
60°	8256	6822	5869
65°	7882	6222	5168
70°	7452	5467	4457
75°	6856	4611	3709
80°	6035	3628	3121
85°	5083	2965	2774



TEST NUMBER: P888356

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	4.0
10°-20°	235.8	11.1
20°-30°	341.9	16.1
30°-40°	389.5	18.4
40°-50°	379.6	17.9
50°-60°	319.5	15.1
60°-70°	223.9	10.6
70°-80°	114.8	5.4
80°-90°	28.6	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°	662.0	31.3
0°-40°	1051.5	49.6
0°-60°	1750.7	82.7
0°-90°	2118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	896	896	896	896	896	
5°	895	892	885	892	890	85
15°	851	847	833	832	826	240
25°	772	762	737	728	720	355
35°	665	649	618	599	589	416
45°	544	525	487	460	450	420
55°	413	391	354	323	312	369
65°	280	257	221	194	183	277
75°	149	129	100	85	81	157
85°	37	25	22	21	20	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	896.5	896.5	896.5	896.5	896.5
2.5°	898.5	896.5	889.7	896.5	895.8
5°	895.1	892.5	885.0	891.6	890.2
7.5°	888.3	885.6	876.8	882.2	880.9
10°	878.2	876.2	866.6	868.7	866.6
12.5°	866.6	863.9	850.3	851.7	848.4
15°	851.2	847.0	832.7	832.1	826.0
17.5°	834.8	828.8	811.7	808.5	803.7
20°	815.1	808.5	786.7	783.3	777.3
22.5°	793.5	786.7	763.9	756.3	751.4
25°	771.8	761.6	736.6	727.8	720.4
27.5°	747.5	735.2	708.9	697.4	690.0
30°	720.4	707.6	679.1	663.7	657.5
32.5°	693.9	678.5	649.3	631.7	623.7
35°	664.9	648.7	618.2	598.6	589.0
37.5°	637.2	617.4	586.3	563.4	553.8
40°	607.4	587.0	554.5	528.8	520.7
42.5°	576.1	555.1	521.2	497.0	484.0
45°	544.3	524.9	487.4	460.4	450.3
47.5°	511.1	491.0	453.5	425.9	414.3
50°	480.0	457.7	419.1	390.7	380.6
52.5°	446.1	423.3	387.2	356.1	345.9
55°	413.1	391.4	353.6	323.0	312.2
57.5°	379.2	356.1	319.6	289.8	280.3
60°	346.6	323.0	286.4	256.6	246.4
62.5°	312.2	289.8	252.6	225.4	215.3
65°	279.7	256.6	220.8	193.5	183.4
67.5°	247.0	224.2	189.5	163.9	155.9
70°	214.0	190.9	157.0	136.0	128.0
72.5°	181.5	159.1	128.0	109.0	104.4
75°	149.0	128.6	100.2	85.4	80.6
77.5°	115.7	99.5	75.7	64.4	60.3
80°	88.0	71.8	52.9	46.7	45.5
82.5°	60.9	46.7	35.3	33.0	32.5
85°	37.2	25.0	21.7	21.0	20.3
87.5°	15.7	10.8	10.2	10.2	9.4
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)