

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: P888323

Luminaire Tested: **DPT5-4F021-37V60-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: P888323
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: DPT5-4F021-37V60-F-XX-UDD_6500K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

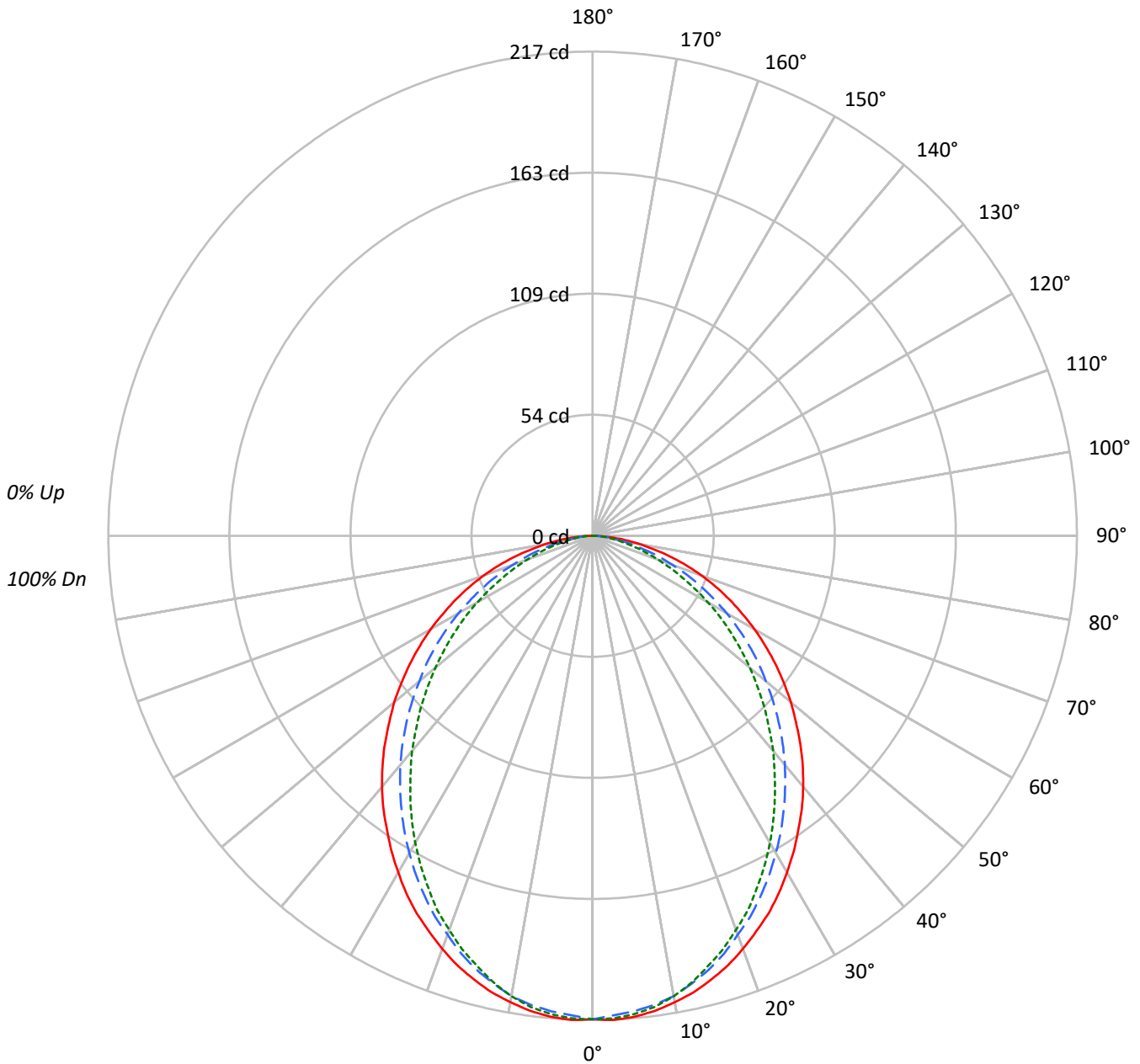
Lumens per Lamp: N/A
Luminaire Lumens: 512.0 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 5
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: P888323

CATALOG NUMBER: DPT5-4F021-37V60-F-XX-UDD_6500K

Luminous Intensity Polar Plot





TEST NUMBER: P888323

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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°	3626	3626	3626
5°	3635	3593	3615
10°	3607	3560	3560
15°	3565	3487	3460
20°	3508	3387	3346
25°	3445	3288	3216
30°	3366	3173	3070
35°	3283	3052	2909
40°	3207	2927	2750
45°	3114	2788	2575
50°	3020	2637	2395
55°	2915	2494	2203
60°	2805	2316	1995
65°	2677	2114	1754
70°	2529	1859	1512
75°	2328	1565	1261
80°	2053	1233	1060
85°	1728	1018	941



TEST NUMBER: P888323

CATALOG NUMBER: DPT5-4F021-37V60-F-XX-UDD_6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.4	4.0
10°-20°	57.0	11.1
20°-30°	82.6	16.1
30°-40°	94.2	18.4
40°-50°	91.8	17.9
50°-60°	77.2	15.1
60°-70°	54.1	10.6
70°-80°	27.7	5.4
80°-90°	6.9	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°	160.0	31.3
0°-40°	254.2	49.6
0°-60°	423.2	82.7
0°-90°	512.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	512.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	217	217	217	217	217	
5°	216	216	214	216	215	21
15°	206	205	201	201	200	58
25°	187	184	178	176	174	86
35°	161	157	149	145	142	101
45°	132	127	118	111	109	101
55°	100	95	86	78	76	89
65°	68	62	53	47	44	67
75°	36	31	24	21	20	38
85°	9	6	5	5	5	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	216.7	216.7	216.7	216.7	216.7
2.5°	217.2	216.7	215.1	216.7	216.5
5°	216.4	215.7	213.9	215.5	215.2
7.5°	214.7	214.1	212.0	213.3	213.0
10°	212.3	211.8	209.5	210.0	209.5
12.5°	209.5	208.8	205.5	205.9	205.1
15°	205.8	204.8	201.3	201.1	199.7
17.5°	201.8	200.4	196.2	195.4	194.3
20°	197.0	195.4	190.2	189.4	187.9
22.5°	191.8	190.2	184.7	182.8	181.7
25°	186.6	184.1	178.1	175.9	174.2
27.5°	180.7	177.7	171.4	168.6	166.8
30°	174.2	171.1	164.2	160.4	158.9
32.5°	167.7	164.0	157.0	152.7	150.8
35°	160.7	156.8	149.4	144.7	142.4
37.5°	154.0	149.3	141.7	136.2	133.9
40°	146.8	141.9	134.0	127.8	125.9
42.5°	139.3	134.2	126.0	120.1	117.0
45°	131.6	126.9	117.8	111.3	108.8
47.5°	123.5	118.7	109.6	103.0	100.2
50°	116.0	110.6	101.3	94.5	92.0
52.5°	107.8	102.3	93.6	86.1	83.6
55°	99.9	94.6	85.5	78.1	75.5
57.5°	91.7	86.1	77.3	70.0	67.8
60°	83.8	78.1	69.2	62.0	59.6
62.5°	75.5	70.0	61.1	54.5	52.0
65°	67.6	62.0	53.4	46.8	44.3
67.5°	59.7	54.2	45.8	39.6	37.7
70°	51.7	46.1	38.0	32.9	30.9
72.5°	43.9	38.5	30.9	26.4	25.2
75°	36.0	31.1	24.2	20.6	19.5
77.5°	28.0	24.0	18.3	15.6	14.6
80°	21.3	17.4	12.8	11.3	11.0
82.5°	14.7	11.3	8.5	8.0	7.9
85°	9.0	6.0	5.3	5.1	4.9
87.5°	3.8	2.6	2.5	2.5	2.3
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)