

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: P888318

Luminaire Tested: **DPT5-4F021-37V60-F-XX-UDD_3000K**

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: P888318
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_3000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

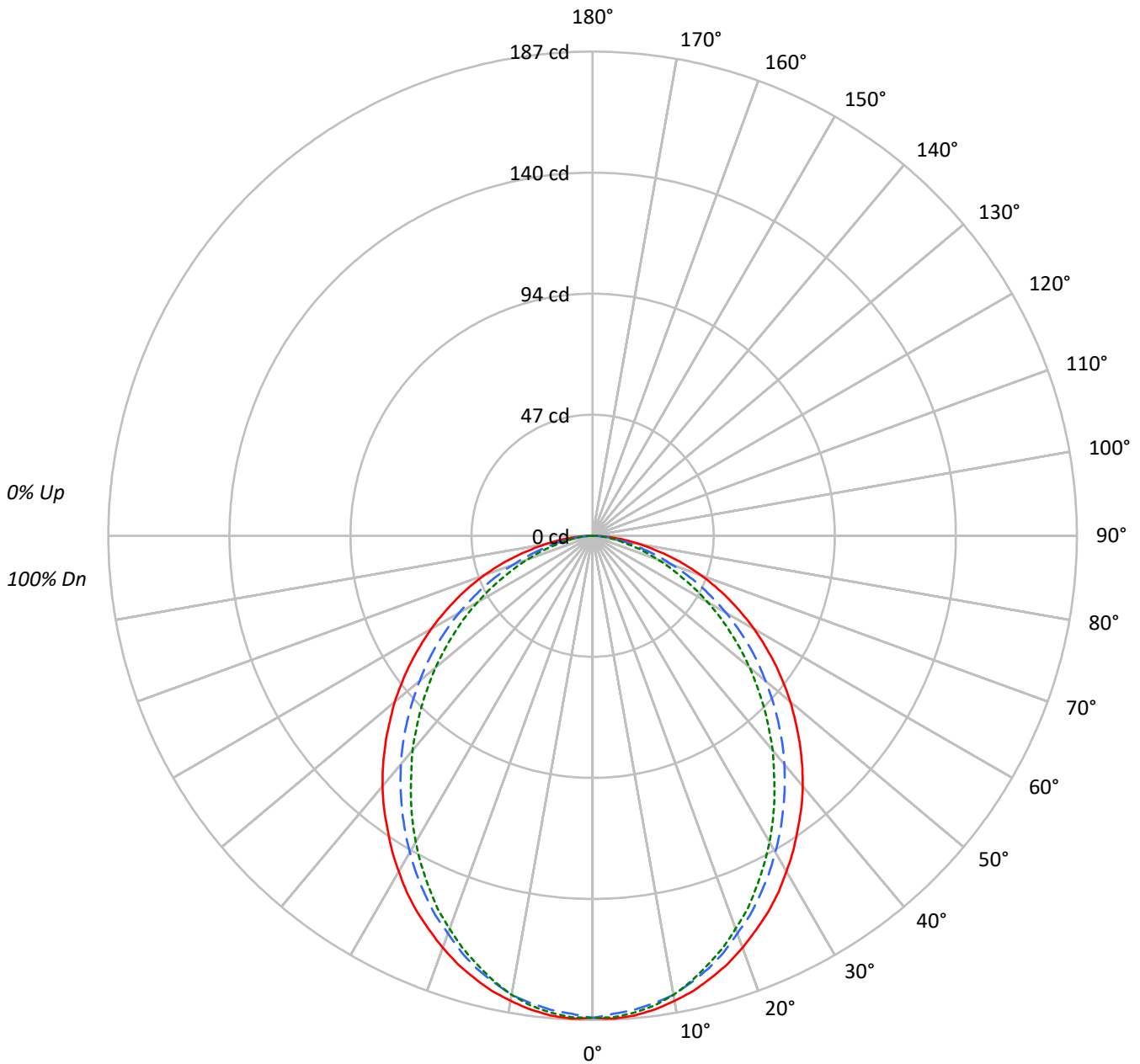
Lumens per Lamp: N/A
Luminaire Lumens: 440.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

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

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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°	3116	3116	3116
5°	3124	3087	3106
10°	3099	3059	3059
15°	3063	2997	2973
20°	3015	2910	2876
25°	2960	2825	2764
30°	2893	2726	2639
35°	2821	2623	2500
40°	2757	2516	2364
45°	2677	2397	2213
50°	2595	2267	2059
55°	2503	2141	1893
60°	2410	1991	1714
65°	2300	1817	1509
70°	2177	1595	1301
75°	1998	1345	1086
80°	1763	1060	906
85°	1478	864	806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.5	4.0
10°-20°	49.0	11.1
20°-30°	71.0	16.1
30°-40°	80.9	18.4
40°-50°	78.9	17.9
50°-60°	66.4	15.1
60°-70°	46.5	10.6
70°-80°	23.8	5.4
80°-90°	5.9	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°	137.5	31.3
0°-40°	218.4	49.6
0°-60°	363.7	82.7
0°-90°	440.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	440.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	186	186	186	186	186	
5°	186	185	184	185	185	18
15°	177	176	173	173	172	50
25°	160	158	153	151	150	74
35°	138	135	128	124	122	87
45°	113	109	101	96	94	87
55°	86	81	73	67	65	77
65°	58	53	46	40	38	58
75°	31	27	21	18	17	33
85°	8	5	4	4	4	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	186.2	186.2	186.2	186.2	186.2
2.5°	186.7	186.2	184.8	186.2	186.1
5°	186.0	185.4	183.8	185.2	184.9
7.5°	184.5	184.0	182.1	183.3	183.0
10°	182.4	182.0	180.0	180.5	180.0
12.5°	180.0	179.5	176.6	176.9	176.2
15°	176.8	176.0	173.0	172.9	171.6
17.5°	173.4	172.2	168.6	168.0	167.0
20°	169.3	168.0	163.4	162.7	161.5
22.5°	164.8	163.4	158.7	157.1	156.1
25°	160.3	158.2	153.0	151.2	149.7
27.5°	155.3	152.7	147.3	144.9	143.3
30°	149.7	147.0	141.1	137.9	136.6
32.5°	144.2	140.9	134.9	131.2	129.6
35°	138.1	134.8	128.4	124.4	122.4
37.5°	132.4	128.3	121.8	117.0	115.0
40°	126.2	122.0	115.2	109.8	108.2
42.5°	119.7	115.3	108.3	103.2	100.6
45°	113.1	109.0	101.3	95.7	93.5
47.5°	106.2	102.0	94.2	88.5	86.1
50°	99.7	95.1	87.1	81.2	79.1
52.5°	92.7	87.9	80.4	74.0	71.9
55°	85.8	81.3	73.4	67.1	64.9
57.5°	78.8	74.0	66.4	60.2	58.2
60°	72.0	67.1	59.5	53.3	51.2
62.5°	64.9	60.2	52.5	46.8	44.7
65°	58.1	53.3	45.9	40.2	38.1
67.5°	51.3	46.6	39.4	34.0	32.4
70°	44.5	39.7	32.6	28.3	26.6
72.5°	37.7	33.1	26.6	22.6	21.7
75°	30.9	26.7	20.8	17.7	16.8
77.5°	24.0	20.7	15.7	13.4	12.5
80°	18.3	14.9	11.0	9.7	9.4
82.5°	12.7	9.7	7.3	6.9	6.8
85°	7.7	5.2	4.5	4.4	4.2
87.5°	3.3	2.2	2.1	2.1	2.0
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)