

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: P888046

Luminaire Tested: **DPT5-4F021-37V60-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: P888046
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-A-XX-UDD_4500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

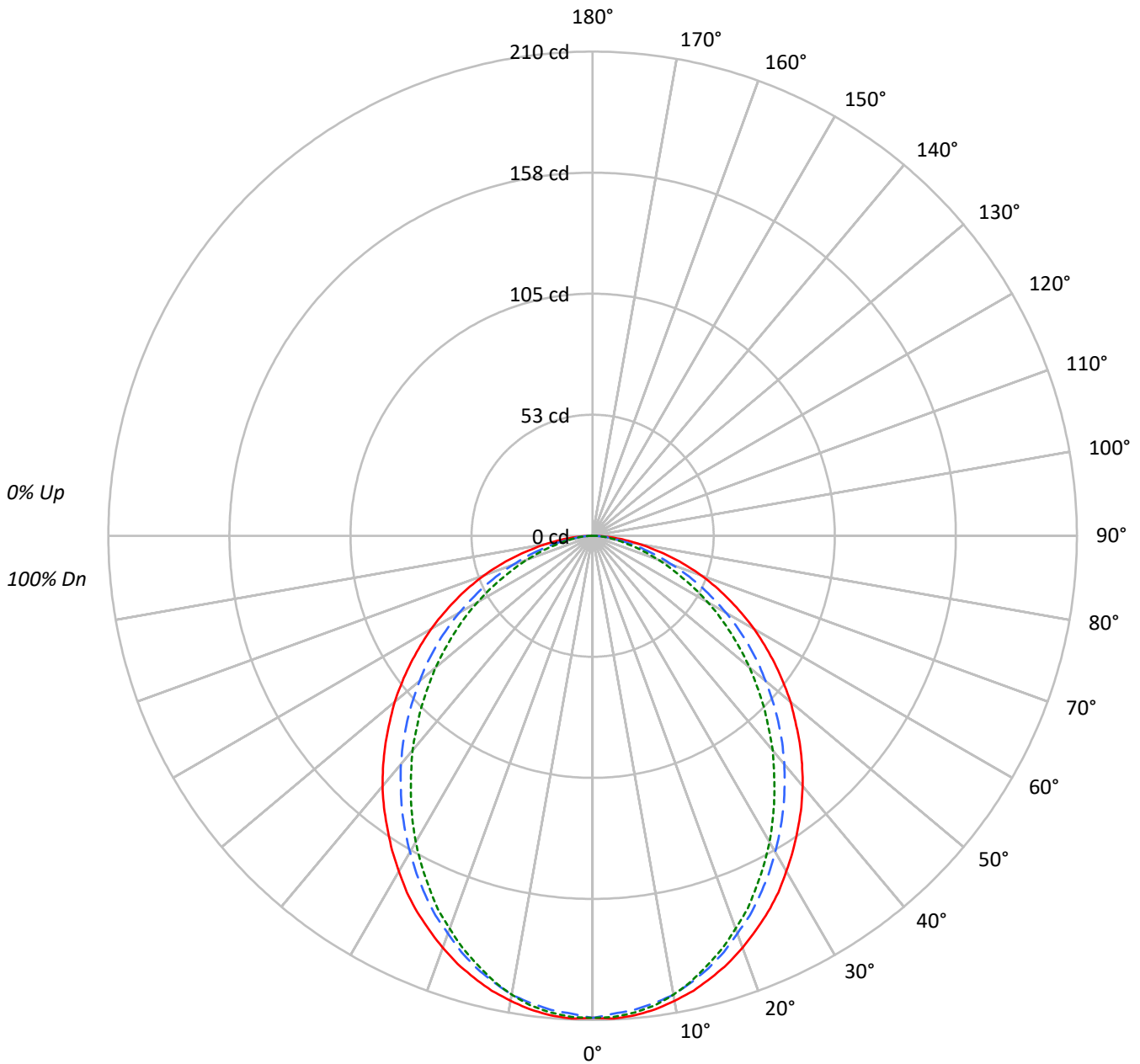
Lumens per Lamp: N/A
Luminaire Lumens: 494.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

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°	3499	3499	3499
5°	3507	3467	3487
10°	3480	3434	3434
15°	3439	3364	3338
20°	3385	3268	3229
25°	3323	3172	3102
30°	3246	3061	2964
35°	3168	2946	2807
40°	3095	2824	2654
45°	3005	2691	2485
50°	2916	2546	2312
55°	2809	2407	2124
60°	2708	2236	1924
65°	2582	2039	1695
70°	2441	1791	1463
75°	2244	1513	1215
80°	1975	1185	1021
85°	1670	979	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.7	4.0
10°-20°	55.0	11.1
20°-30°	79.7	16.1
30°-40°	90.8	18.4
40°-50°	88.5	17.9
50°-60°	74.5	15.1
60°-70°	52.2	10.6
70°-80°	26.8	5.4
80°-90°	6.7	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°	154.4	31.3
0°-40°	245.3	49.6
0°-60°	408.3	82.7
0°-90°	494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	209	209	209	209	209	
5°	209	208	206	208	208	20
15°	198	198	194	194	193	56
25°	180	178	172	170	168	83
35°	155	151	144	140	137	97
45°	127	122	114	107	105	98
55°	96	91	82	75	73	86
65°	65	60	52	45	43	65
75°	35	30	23	20	19	37
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°	209.1	209.1	209.1	209.1	209.1
2.5°	209.6	209.1	207.5	209.1	208.9
5°	208.8	208.2	206.4	208.0	207.6
7.5°	207.2	206.6	204.5	205.8	205.5
10°	204.8	204.4	202.1	202.6	202.1
12.5°	202.1	201.5	198.3	198.6	197.9
15°	198.5	197.6	194.2	194.1	192.7
17.5°	194.7	193.3	189.3	188.6	187.5
20°	190.1	188.6	183.5	182.7	181.3
22.5°	185.1	183.5	178.2	176.4	175.3
25°	180.0	177.6	171.8	169.8	168.0
27.5°	174.4	171.5	165.3	162.7	160.9
30°	168.0	165.0	158.4	154.8	153.4
32.5°	161.8	158.2	151.4	147.3	145.5
35°	155.1	151.3	144.2	139.6	137.4
37.5°	148.6	144.0	136.7	131.4	129.2
40°	141.7	136.9	129.3	123.3	121.5
42.5°	134.4	129.5	121.6	115.9	112.9
45°	127.0	122.4	113.7	107.4	105.0
47.5°	119.2	114.5	105.8	99.3	96.6
50°	112.0	106.7	97.8	91.1	88.8
52.5°	104.1	98.7	90.3	83.0	80.7
55°	96.3	91.3	82.5	75.3	72.8
57.5°	88.4	83.0	74.6	67.6	65.4
60°	80.9	75.3	66.8	59.8	57.5
62.5°	72.8	67.6	58.9	52.6	50.2
65°	65.2	59.8	51.5	45.1	42.8
67.5°	57.6	52.3	44.2	38.2	36.4
70°	49.9	44.5	36.6	31.7	29.9
72.5°	42.3	37.1	29.9	25.4	24.3
75°	34.7	30.0	23.4	19.9	18.8
77.5°	27.0	23.2	17.7	15.0	14.1
80°	20.5	16.8	12.3	10.9	10.6
82.5°	14.2	10.9	8.2	7.7	7.6
85°	8.7	5.8	5.1	4.9	4.7
87.5°	3.7	2.5	2.4	2.4	2.2
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)