

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: P888055

Luminaire Tested: **DPT5-4F021-61V60-A-XX-UDD_3500K**

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: P888055
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: DPT5-4F021-61V60-A-XX-UDD_3500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

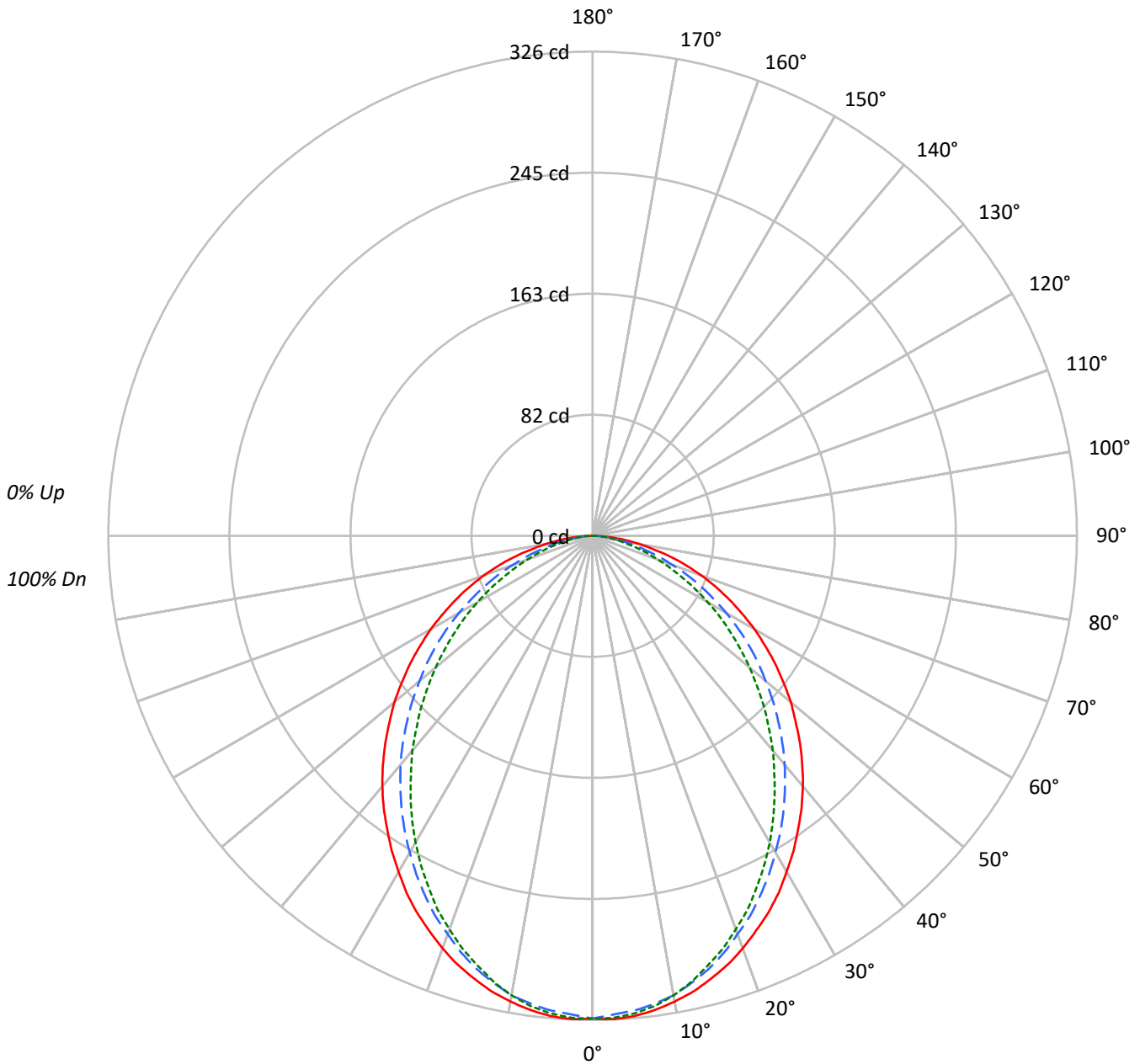
Lumens per Lamp: N/A
Luminaire Lumens: 768.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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°	5440	5440	5440
5°	5453	5390	5422
10°	5410	5339	5339
15°	5346	5230	5189
20°	5264	5081	5020
25°	5168	4932	4823
30°	5047	4757	4606
35°	4925	4580	4363
40°	4810	4393	4124
45°	4671	4182	3865
50°	4532	3957	3593
55°	4370	3740	3303
60°	4207	3474	2992
65°	4015	3172	2633
70°	3797	2784	2270
75°	3491	2347	1888
80°	3074	1850	1590
85°	2592	1517	1421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.6	4.0
10°-20°	85.5	11.1
20°-30°	124.0	16.1
30°-40°	141.2	18.4
40°-50°	137.7	17.9
50°-60°	115.9	15.1
60°-70°	81.2	10.6
70°-80°	41.6	5.4
80°-90°	10.4	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°	240.1	31.3
0°-40°	381.3	49.6
0°-60°	634.8	82.7
0°-90°	768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	325	325	325	325	325	
5°	325	324	321	323	323	31
15°	309	307	302	302	300	87
25°	280	276	267	264	261	129
35°	241	235	224	217	214	151
45°	197	190	177	167	163	152
55°	150	142	128	117	113	134
65°	101	93	80	70	66	100
75°	54	47	36	31	29	57
85°	14	9	8	8	7	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	325.1	325.1	325.1	325.1	325.1
2.5°	325.8	325.1	322.6	325.1	324.8
5°	324.6	323.6	320.9	323.3	322.8
7.5°	322.1	321.1	317.9	319.9	319.4
10°	318.4	317.7	314.2	315.0	314.2
12.5°	314.2	313.2	308.3	308.8	307.6
15°	308.6	307.1	301.9	301.7	299.5
17.5°	302.7	300.5	294.3	293.2	291.4
20°	295.6	293.2	285.3	284.0	281.9
22.5°	287.7	285.3	277.0	274.3	272.5
25°	279.9	276.2	267.1	263.9	261.2
27.5°	271.1	266.6	257.0	252.9	250.2
30°	261.2	256.6	246.2	240.6	238.4
32.5°	251.6	246.0	235.5	229.1	226.2
35°	241.1	235.2	224.2	217.1	213.6
37.5°	231.0	223.9	212.6	204.3	200.8
40°	220.2	212.9	201.1	191.7	188.8
42.5°	208.9	201.3	189.0	180.2	175.5
45°	197.4	190.3	176.7	167.0	163.3
47.5°	185.3	178.0	164.5	154.4	150.2
50°	174.1	166.0	152.0	141.7	138.0
52.5°	161.8	153.5	140.4	129.1	125.4
55°	149.8	141.9	128.2	117.1	113.2
57.5°	137.5	129.1	115.9	105.1	101.6
60°	125.7	117.1	103.8	93.0	89.4
62.5°	113.2	105.1	91.6	81.7	78.1
65°	101.4	93.0	80.1	70.2	66.5
67.5°	89.6	81.3	68.7	59.4	56.5
70°	77.6	69.2	56.9	49.3	46.4
72.5°	65.8	57.7	46.4	39.5	37.8
75°	54.0	46.6	36.3	31.0	29.2
77.5°	41.9	36.1	27.5	23.4	21.9
80°	31.9	26.1	19.2	16.9	16.5
82.5°	22.1	16.9	12.8	12.0	11.8
85°	13.5	9.1	7.9	7.6	7.4
87.5°	5.7	3.9	3.7	3.7	3.4
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)