

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: P888057

Luminaire Tested: **DPT5-4F021-61V60-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: P888057
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_4500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

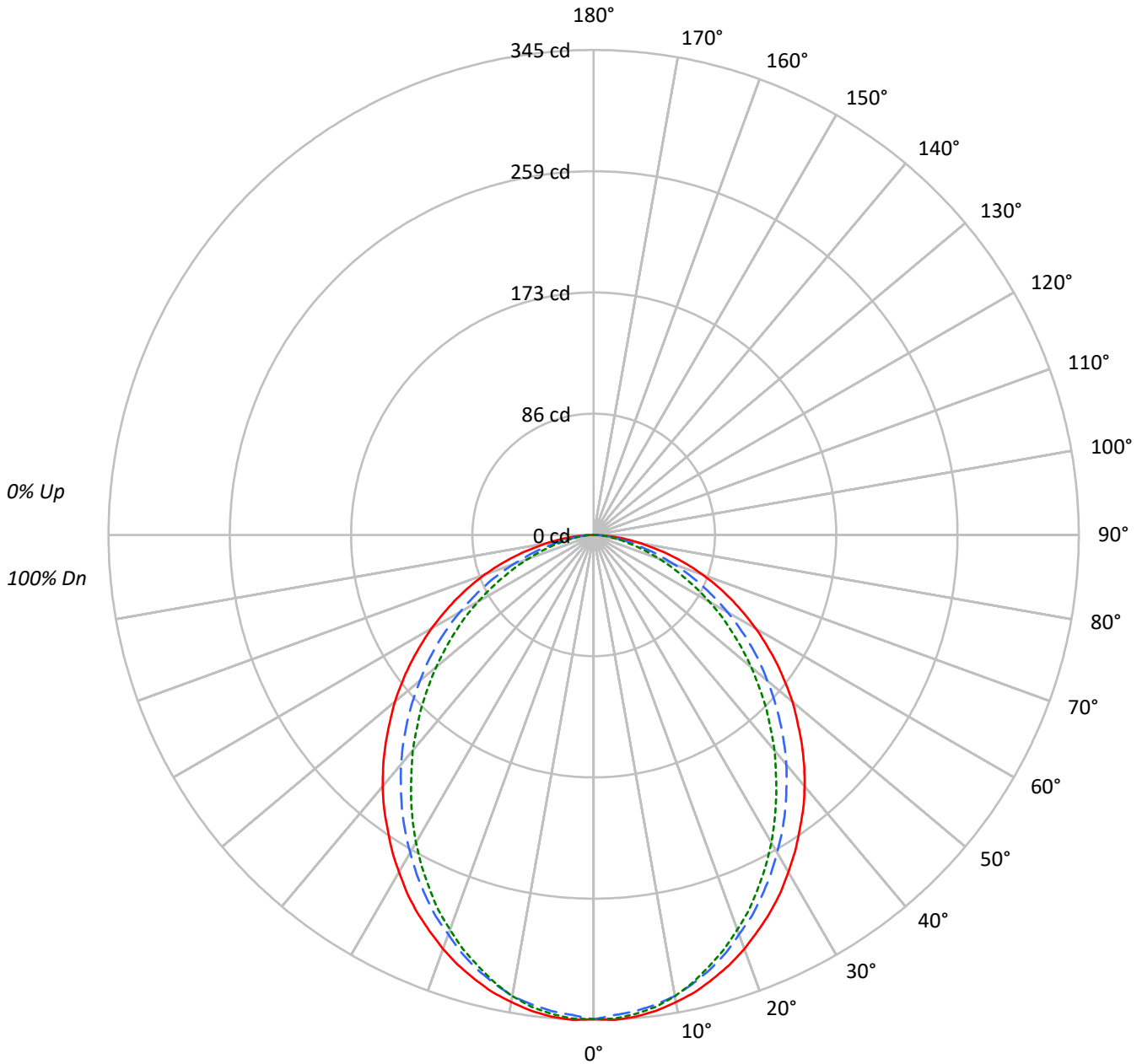
Lumens per Lamp: N/A
Luminaire Lumens: 814.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

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°	5765	5765	5765
5°	5778	5713	5746
10°	5735	5660	5660
15°	5667	5544	5500
20°	5579	5385	5319
25°	5476	5227	5113
30°	5350	5043	4883
35°	5219	4854	4625
40°	5098	4655	4371
45°	4951	4432	4094
50°	4803	4194	3809
55°	4633	3965	3501
60°	4458	3685	3169
65°	4257	3362	2791
70°	4027	2950	2407
75°	3698	2489	2004
80°	3257	1956	1686
85°	2746	1613	1498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	4.0
10°-20°	90.6	11.1
20°-30°	131.4	16.1
30°-40°	149.7	18.4
40°-50°	145.9	17.9
50°-60°	122.8	15.1
60°-70°	86.1	10.6
70°-80°	44.1	5.4
80°-90°	11.0	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°	254.4	31.3
0°-40°	404.1	49.6
0°-60°	672.8	82.7
0°-90°	814.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	814.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	344	344	344	344	344	
5°	344	343	340	343	342	33
15°	327	326	320	320	318	92
25°	297	293	283	280	277	137
35°	256	249	238	230	226	160
45°	209	202	187	177	173	161
55°	159	150	136	124	120	142
65°	108	99	85	74	70	106
75°	57	49	38	33	31	60
85°	14	10	8	8	8	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	344.5	344.5	344.5	344.5	344.5
2.5°	345.3	344.5	341.9	344.5	344.3
5°	344.0	343.0	340.1	342.7	342.1
7.5°	341.4	340.4	337.0	339.0	338.6
10°	337.5	336.7	333.1	333.9	333.1
12.5°	333.1	332.0	326.8	327.3	326.1
15°	327.1	325.5	320.0	319.8	317.5
17.5°	320.8	318.5	312.0	310.7	308.9
20°	313.3	310.7	302.4	301.1	298.7
22.5°	305.0	302.4	293.6	290.7	288.8
25°	296.6	292.7	283.1	279.7	276.9
27.5°	287.3	282.6	272.4	268.0	265.2
30°	276.9	272.0	261.0	255.1	252.7
32.5°	266.7	260.8	249.6	242.8	239.7
35°	255.5	249.3	237.6	230.1	226.4
37.5°	244.9	237.3	225.3	216.5	212.8
40°	233.4	225.6	213.1	203.2	200.1
42.5°	221.4	213.4	200.3	191.0	186.0
45°	209.2	201.7	187.3	177.0	173.0
47.5°	196.4	188.7	174.3	163.7	159.2
50°	184.5	175.9	161.1	150.2	146.3
52.5°	171.5	162.7	148.8	136.8	132.9
55°	158.8	150.4	135.9	124.1	120.0
57.5°	145.7	136.8	122.8	111.4	107.7
60°	133.2	124.1	110.1	98.6	94.7
62.5°	120.0	111.4	97.1	86.6	82.7
65°	107.5	98.6	84.9	74.4	70.5
67.5°	94.9	86.2	72.8	63.0	59.9
70°	82.3	73.4	60.3	52.3	49.2
72.5°	69.7	61.2	49.2	41.9	40.1
75°	57.2	49.4	38.5	32.8	31.0
77.5°	44.5	38.2	29.1	24.8	23.2
80°	33.8	27.6	20.3	18.0	17.5
82.5°	23.4	18.0	13.6	12.7	12.5
85°	14.3	9.6	8.4	8.1	7.8
87.5°	6.0	4.2	3.9	3.9	3.6
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)