

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: P888048

Luminaire Tested: **DPT5-4F021-37V60-A-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: P888048
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_6500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

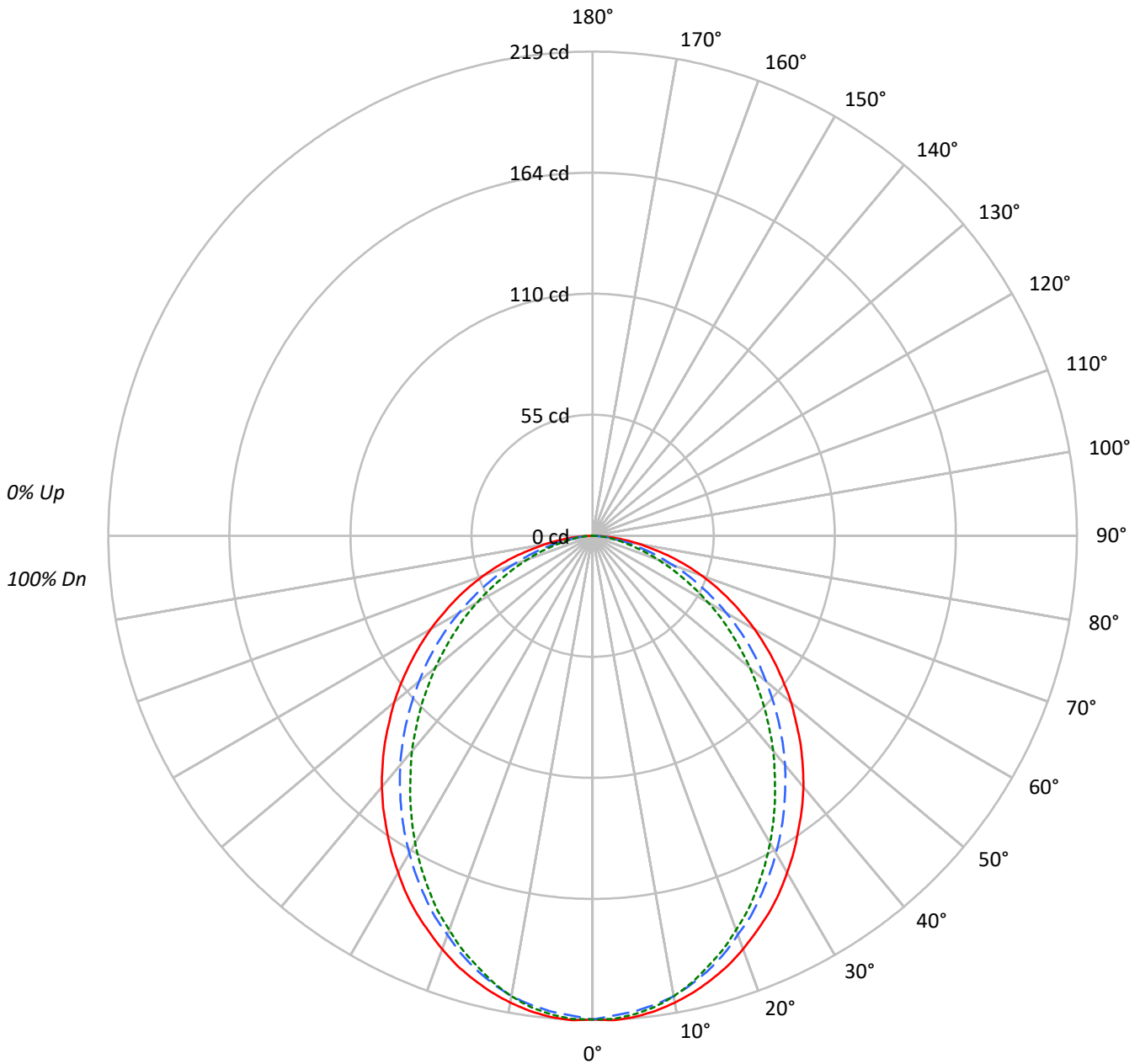
Lumens per Lamp: N/A
Luminaire Lumens: 517.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

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	30																			
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°	3661	3661	3661
5°	3670	3628	3650
10°	3643	3594	3594
15°	3600	3522	3493
20°	3544	3419	3378
25°	3479	3320	3248
30°	3399	3204	3101
35°	3315	3083	2938
40°	3240	2958	2776
45°	3145	2816	2601
50°	3051	2663	2418
55°	2941	2518	2223
60°	2831	2339	2015
65°	2704	2134	1774
70°	2554	1874	1526
75°	2353	1584	1274
80°	2072	1243	1070
85°	1747	1018	960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.6	4.0
10°-20°	57.6	11.1
20°-30°	83.5	16.1
30°-40°	95.1	18.4
40°-50°	92.7	17.9
50°-60°	78.0	15.1
60°-70°	54.6	10.6
70°-80°	28.0	5.4
80°-90°	7.0	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°	161.6	31.3
0°-40°	256.7	49.6
0°-60°	427.3	82.7
0°-90°	517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	219	219	219	219	219	
5°	218	218	216	218	217	21
15°	208	207	203	203	202	59
25°	188	186	180	178	176	87
35°	162	158	151	146	144	102
45°	133	128	119	112	110	102
55°	101	96	86	79	76	90
65°	68	63	54	47	45	68
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°	218.8	218.8	218.8	218.8	218.8
2.5°	219.3	218.8	217.2	218.8	218.7
5°	218.5	217.9	216.0	217.6	217.3
7.5°	216.8	216.2	214.0	215.3	215.0
10°	214.4	213.9	211.5	212.1	211.5
12.5°	211.5	210.9	207.6	207.9	207.1
15°	207.8	206.8	203.3	203.1	201.6
17.5°	203.8	202.3	198.1	197.3	196.2
20°	199.0	197.3	192.0	191.2	189.7
22.5°	193.7	192.0	186.5	184.6	183.4
25°	188.4	185.9	179.8	177.7	175.9
27.5°	182.5	179.5	173.0	170.2	168.4
30°	175.9	172.7	165.8	162.0	160.5
32.5°	169.4	165.6	158.5	154.2	152.2
35°	162.3	158.3	150.9	146.1	143.8
37.5°	155.5	150.7	143.1	137.5	135.2
40°	148.3	143.3	135.4	129.1	127.1
42.5°	140.6	135.5	127.2	121.3	118.2
45°	132.9	128.1	119.0	112.4	109.9
47.5°	124.7	119.8	110.7	104.0	101.1
50°	117.2	111.7	102.3	95.4	92.9
52.5°	108.9	103.3	94.5	86.9	84.4
55°	100.8	95.5	86.3	78.9	76.2
57.5°	92.6	86.9	78.0	70.7	68.4
60°	84.6	78.9	69.9	62.6	60.2
62.5°	76.2	70.7	61.7	55.0	52.5
65°	68.3	62.6	53.9	47.2	44.8
67.5°	60.3	54.7	46.3	40.0	38.0
70°	52.2	46.6	38.3	33.2	31.2
72.5°	44.3	38.8	31.2	26.6	25.5
75°	36.4	31.4	24.5	20.8	19.7
77.5°	28.2	24.3	18.5	15.7	14.7
80°	21.5	17.5	12.9	11.4	11.1
82.5°	14.9	11.4	8.6	8.1	7.9
85°	9.1	6.1	5.3	5.1	5.0
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)