

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: P888070

Luminaire Tested: **DPT5-4F021-85V60-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: P888070
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: DPT5-4F021-85V60-A-XX-UDD_6500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

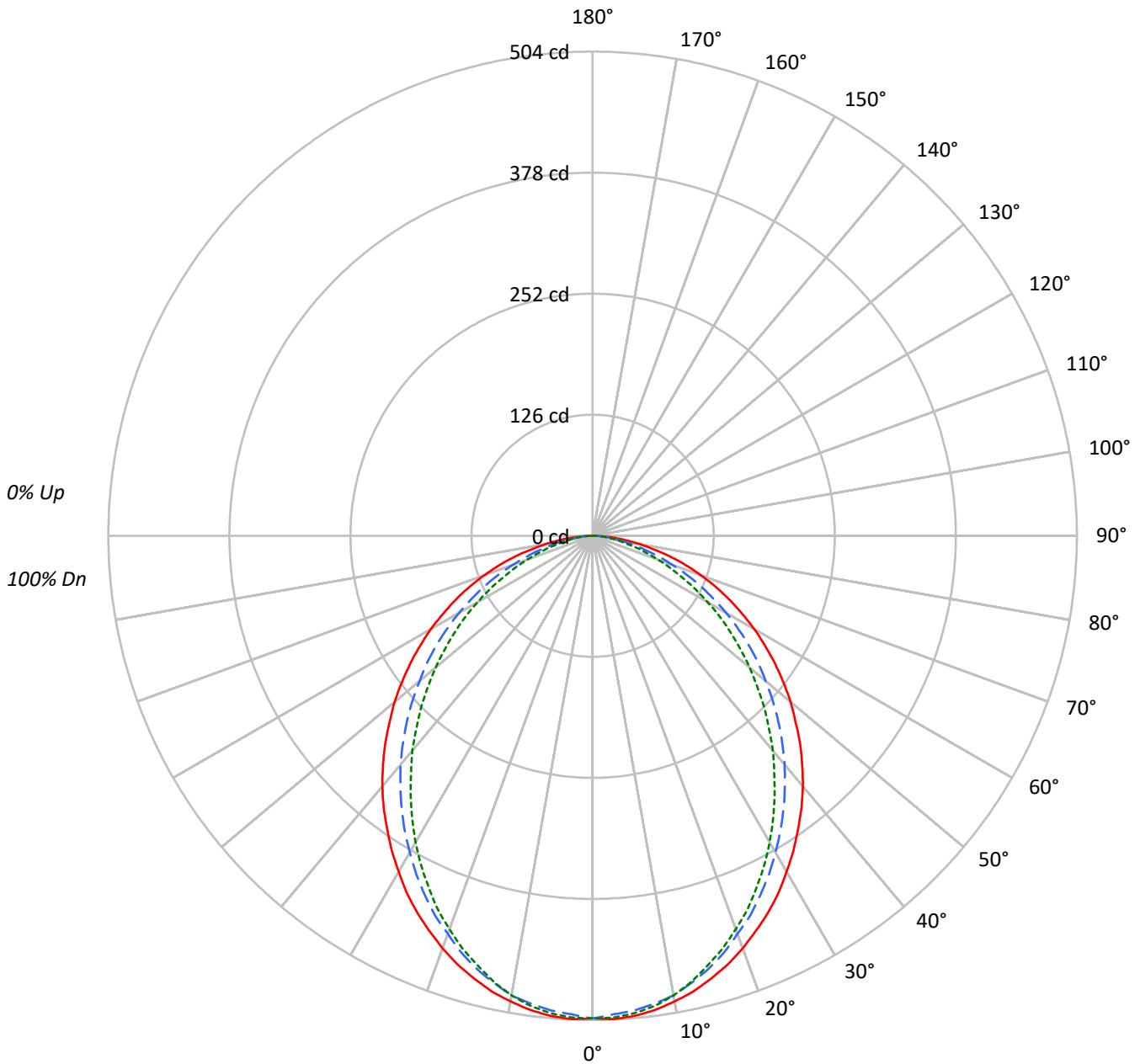
Lumens per Lamp: N/A
Luminaire Lumens: 1187.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 11.4
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°	8407	8407	8407
5°	8427	8332	8380
10°	8363	8253	8253
15°	8264	8085	8019
20°	8135	7851	7757
25°	7986	7622	7454
30°	7800	7354	7120
35°	7612	7078	6743
40°	7436	6789	6374
45°	7220	6465	5971
50°	7003	6115	5553
55°	6754	5779	5106
60°	6503	5372	4622
65°	6209	4898	4070
70°	5866	4306	3508
75°	5399	3634	2922
80°	4751	2852	2457
85°	3994	2342	2189



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	4.0
10°-20°	132.1	11.1
20°-30°	191.6	16.1
30°-40°	218.3	18.4
40°-50°	212.8	17.9
50°-60°	179.1	15.1
60°-70°	125.5	10.6
70°-80°	64.3	5.4
80°-90°	16.1	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°	371.0	31.3
0°-40°	589.3	49.6
0°-60°	981.1	82.7
0°-90°	1187.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1187.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	502	502	502	502	502	
5°	502	500	496	500	499	48
15°	477	475	467	466	463	134
25°	432	427	413	408	404	199
35°	373	364	346	336	330	233
45°	305	294	273	258	252	235
55°	232	219	198	181	175	207
65°	157	144	124	108	103	155
75°	84	72	56	48	45	88
85°	21	14	12	12	11	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	502.4	502.4	502.4	502.4	502.4
2.5°	503.6	502.4	498.6	502.4	502.0
5°	501.7	500.2	496.0	499.7	498.9
7.5°	497.9	496.3	491.4	494.4	493.7
10°	492.2	491.0	485.7	486.9	485.7
12.5°	485.7	484.1	476.5	477.3	475.5
15°	477.0	474.7	466.7	466.3	462.9
17.5°	467.9	464.5	454.9	453.1	450.4
20°	456.8	453.1	440.9	439.0	435.6
22.5°	444.7	440.9	428.1	423.9	421.1
25°	432.5	426.8	412.8	407.9	403.7
27.5°	419.0	412.1	397.3	390.9	386.7
30°	403.7	396.6	380.6	371.9	368.5
32.5°	388.9	380.2	363.9	354.1	349.5
35°	372.6	363.6	346.5	335.5	330.1
37.5°	357.1	346.0	328.6	315.8	310.3
40°	340.4	329.0	310.8	296.3	291.8
42.5°	322.9	311.1	292.1	278.5	271.3
45°	305.1	294.2	273.2	258.0	252.3
47.5°	286.4	275.1	254.2	238.7	232.2
50°	269.0	256.5	234.9	219.0	213.3
52.5°	250.0	237.2	217.0	199.6	193.8
55°	231.5	219.3	198.1	181.0	175.0
57.5°	212.5	199.6	179.1	162.4	157.1
60°	194.3	181.0	160.5	143.8	138.1
62.5°	175.0	162.4	141.6	126.3	120.6
65°	156.8	143.8	123.7	108.5	102.8
67.5°	138.5	125.6	106.2	91.9	87.4
70°	119.9	107.0	88.0	76.2	71.7
72.5°	101.7	89.2	71.7	61.1	58.5
75°	83.5	72.1	56.2	47.9	45.2
77.5°	64.8	55.7	42.4	36.1	33.8
80°	49.3	40.3	29.6	26.2	25.5
82.5°	34.1	26.2	19.8	18.5	18.2
85°	20.8	14.0	12.2	11.8	11.4
87.5°	8.8	6.1	5.7	5.7	5.3
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)