

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: P888036

Luminaire Tested: **DPT5-4F021-127V60-A-XX-UDD_5000K**

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: P888036
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: DPT5-4F021-127V60-A-XX-UDD_5000K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

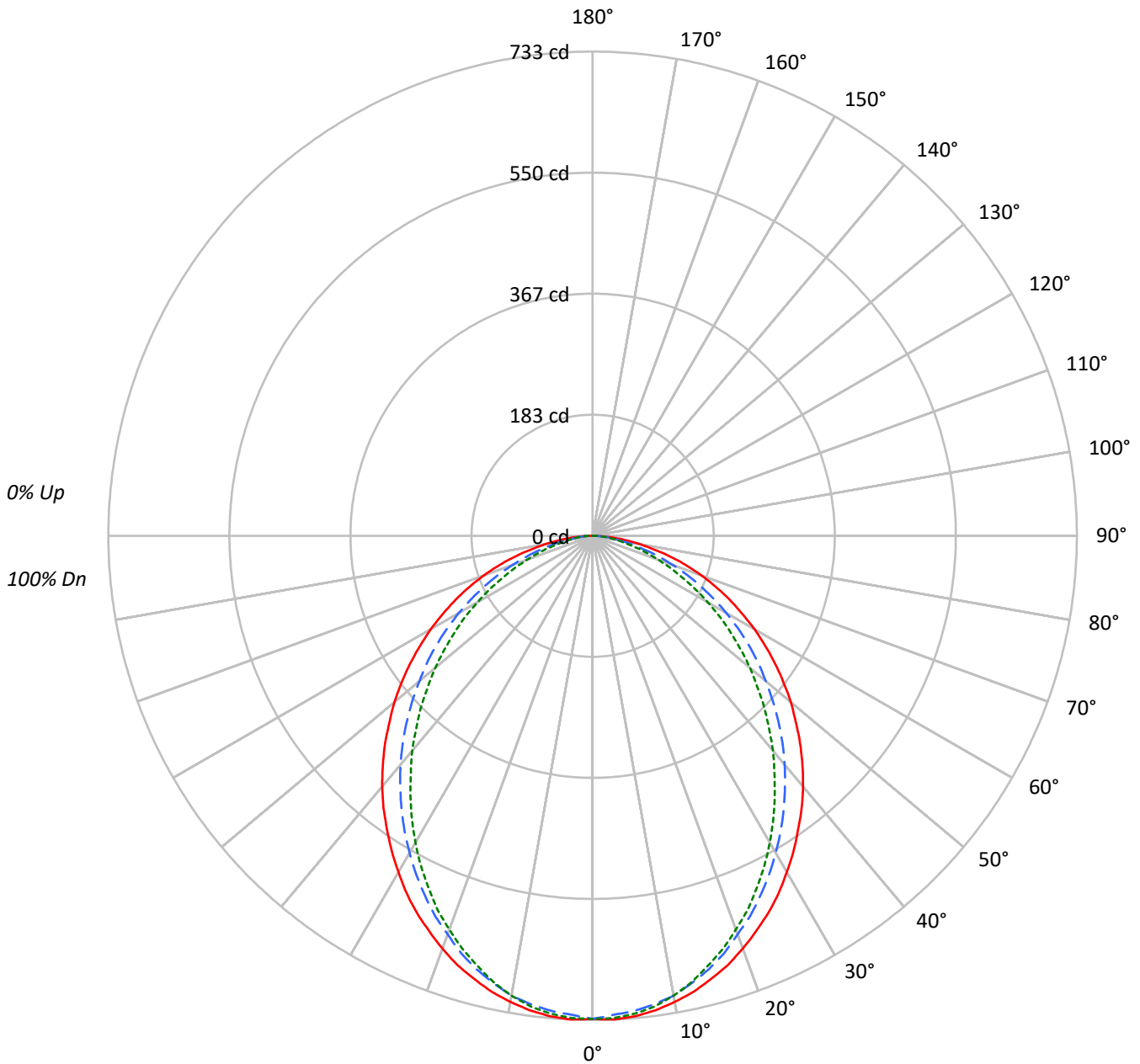
Lumens per Lamp: N/A
Luminaire Lumens: 1728.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 17
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°	12239	12239	12239
5°	12267	12128	12200
10°	12175	12013	12013
15°	12030	11770	11675
20°	11842	11431	11294
25°	11627	11097	10853
30°	11358	10707	10365
35°	11082	10304	9818
40°	10824	9882	9279
45°	10510	9412	8695
50°	10195	8901	8083
55°	9832	8417	7431
60°	9465	7818	6727
65°	9036	7131	5923
70°	8543	6267	5108
75°	7855	5289	4254
80°	6919	4153	3575
85°	5818	3398	3187



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	4.0
10°-20°	192.4	11.1
20°-30°	278.9	16.1
30°-40°	317.8	18.4
40°-50°	309.7	17.9
50°-60°	260.7	15.1
60°-70°	182.7	10.6
70°-80°	93.7	5.4
80°-90°	23.3	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°	540.1	31.3
0°-40°	857.9	49.6
0°-60°	1428.3	82.7
0°-90°	1728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	731	731	731	731	731	
5°	730	728	722	727	726	69
15°	694	691	679	679	674	196
25°	630	621	601	594	588	290
35°	542	529	504	488	481	340
45°	444	428	398	376	367	342
55°	337	319	288	264	255	301
65°	228	209	180	158	150	226
75°	122	105	82	70	66	128
85°	30	20	18	17	17	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	731.4	731.4	731.4	731.4	731.4
2.5°	733.1	731.4	725.9	731.4	730.8
5°	730.3	728.1	722.0	727.4	726.3
7.5°	724.8	722.5	715.3	719.7	718.7
10°	716.5	714.8	707.0	708.8	707.0
12.5°	707.0	704.8	693.7	694.8	692.2
15°	694.4	691.1	679.4	678.9	673.9
17.5°	681.1	676.2	662.3	659.6	655.7
20°	665.0	659.6	641.9	639.1	634.2
22.5°	647.4	641.9	623.2	617.1	613.1
25°	629.7	621.4	601.0	593.8	587.8
27.5°	609.9	599.9	578.3	569.0	563.0
30°	587.8	577.3	554.1	541.4	536.4
32.5°	566.1	553.5	529.8	515.4	508.9
35°	542.5	529.3	504.4	488.4	480.6
37.5°	519.8	503.7	478.3	459.7	451.8
40°	495.5	478.9	452.4	431.4	424.8
42.5°	470.0	452.9	425.2	405.5	394.9
45°	444.1	428.2	397.7	375.7	367.4
47.5°	416.9	400.6	370.0	347.5	338.0
50°	391.6	373.4	341.9	318.8	310.5
52.5°	364.0	345.3	315.9	290.5	282.2
55°	337.0	319.3	288.5	263.6	254.7
57.5°	309.4	290.5	260.8	236.4	228.7
60°	282.8	263.6	233.6	209.3	201.0
62.5°	254.7	236.4	206.1	183.9	175.6
65°	228.2	209.3	180.1	157.9	149.6
67.5°	201.6	182.9	154.6	133.7	127.2
70°	174.6	155.8	128.1	111.0	104.4
72.5°	148.1	129.8	104.4	88.9	85.2
75°	121.5	104.9	81.8	69.7	65.8
77.5°	94.4	81.2	61.8	52.6	49.2
80°	71.8	58.6	43.1	38.1	37.1
82.5°	49.7	38.1	28.8	26.9	26.5
85°	30.3	20.4	17.7	17.1	16.6
87.5°	12.8	8.8	8.3	8.3	7.7
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)