

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: P888304

Luminaire Tested: **DPT5-4F021-127S35-F-XX-UDD**

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: P888304
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: DPT5-4F021-127S35-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

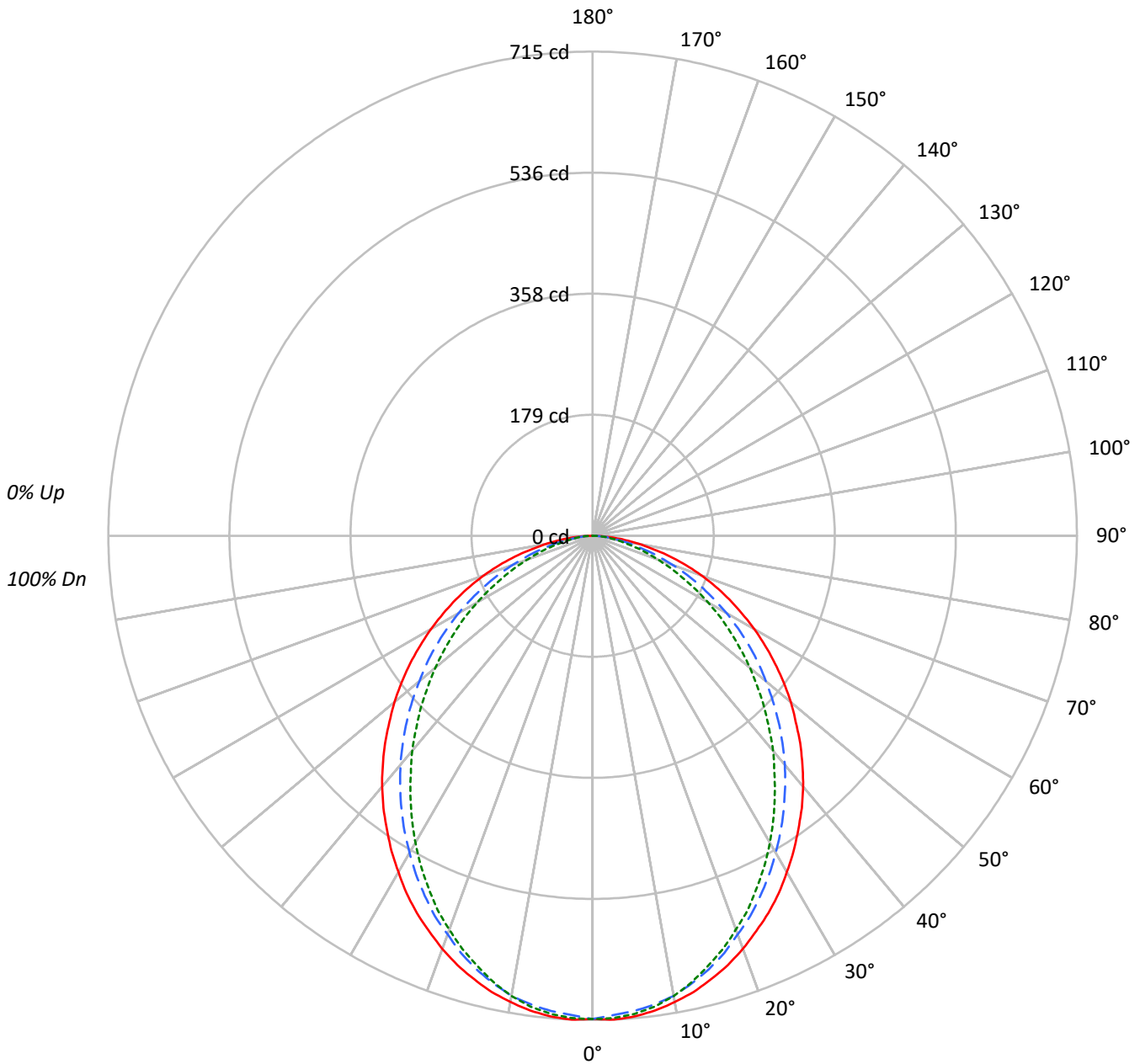
Lumens per Lamp: N/A
Luminaire Lumens: 1686.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

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°	11941	11941	11941
5°	11968	11834	11905
10°	11879	11723	11723
15°	11739	11484	11392
20°	11555	11153	11019
25°	11344	10827	10589
30°	11081	10446	10113
35°	10813	10053	9579
40°	10562	9642	9054
45°	10254	9182	8482
50°	9947	8685	7885
55°	9593	8210	7250
60°	9234	7631	6566
65°	8818	6961	5781
70°	8337	6116	4986
75°	7668	5159	4151
80°	6755	4057	3488
85°	5683	3322	3110



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	4.0
10°-20°	187.7	11.1
20°-30°	272.2	16.1
30°-40°	310.1	18.4
40°-50°	302.2	17.9
50°-60°	254.3	15.1
60°-70°	178.3	10.6
70°-80°	91.4	5.4
80°-90°	22.8	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°	527.0	31.3
0°-40°	837.1	49.6
0°-60°	1393.6	82.7
0°-90°	1686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	712	710	704	710	709	68
15°	678	674	663	662	658	191
25°	614	606	586	579	574	283
35°	529	516	492	476	469	331
45°	433	418	388	366	358	334
55°	329	312	281	257	248	294
65°	223	204	176	154	146	220
75°	119	102	80	68	64	125
85°	30	20	17	17	16	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.6	713.6	713.6	713.6	713.6
2.5°	715.2	713.6	708.3	713.6	713.0
5°	712.5	710.5	704.5	709.8	708.7
7.5°	707.2	705.0	698.0	702.3	701.3
10°	699.1	697.5	689.9	691.6	689.9
12.5°	689.9	687.7	676.9	678.0	675.4
15°	677.6	674.3	662.9	662.4	657.6
17.5°	664.6	659.8	646.2	643.6	639.8
20°	648.9	643.6	626.3	623.6	618.8
22.5°	631.7	626.3	608.1	602.1	598.2
25°	614.4	606.3	586.4	579.4	573.5
27.5°	595.1	585.3	564.3	555.2	549.3
30°	573.5	563.3	540.6	528.3	523.4
32.5°	552.4	540.1	516.9	502.9	496.5
35°	529.3	516.4	492.1	476.5	468.9
37.5°	507.2	491.5	466.7	448.5	440.8
40°	483.5	467.3	441.4	420.9	414.5
42.5°	458.6	441.9	414.9	395.6	385.3
45°	433.3	417.8	388.0	366.5	358.4
47.5°	406.8	390.8	361.0	339.0	329.8
50°	382.1	364.3	333.6	311.0	302.9
52.5°	355.1	336.9	308.2	283.4	275.3
55°	328.8	311.5	281.4	257.1	248.5
57.5°	301.8	283.4	254.4	230.7	223.2
60°	275.9	257.1	228.0	204.3	196.2
62.5°	248.5	230.7	201.1	179.5	171.4
65°	222.7	204.3	175.8	154.1	146.0
67.5°	196.7	178.5	150.9	130.5	124.1
70°	170.4	152.0	125.0	108.3	101.9
72.5°	144.5	126.7	101.9	86.8	83.1
75°	118.6	102.4	79.8	68.0	64.2
77.5°	92.1	79.2	60.3	51.3	48.0
80°	70.1	57.2	42.1	37.2	36.2
82.5°	48.5	37.2	28.1	26.3	25.9
85°	29.6	19.9	17.3	16.7	16.2
87.5°	12.5	8.6	8.1	8.1	7.5
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)