

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: P888030

Luminaire Tested: **DPT5-4F021-127S40-A-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: P888030
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: DPT5-4F021-127S40-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

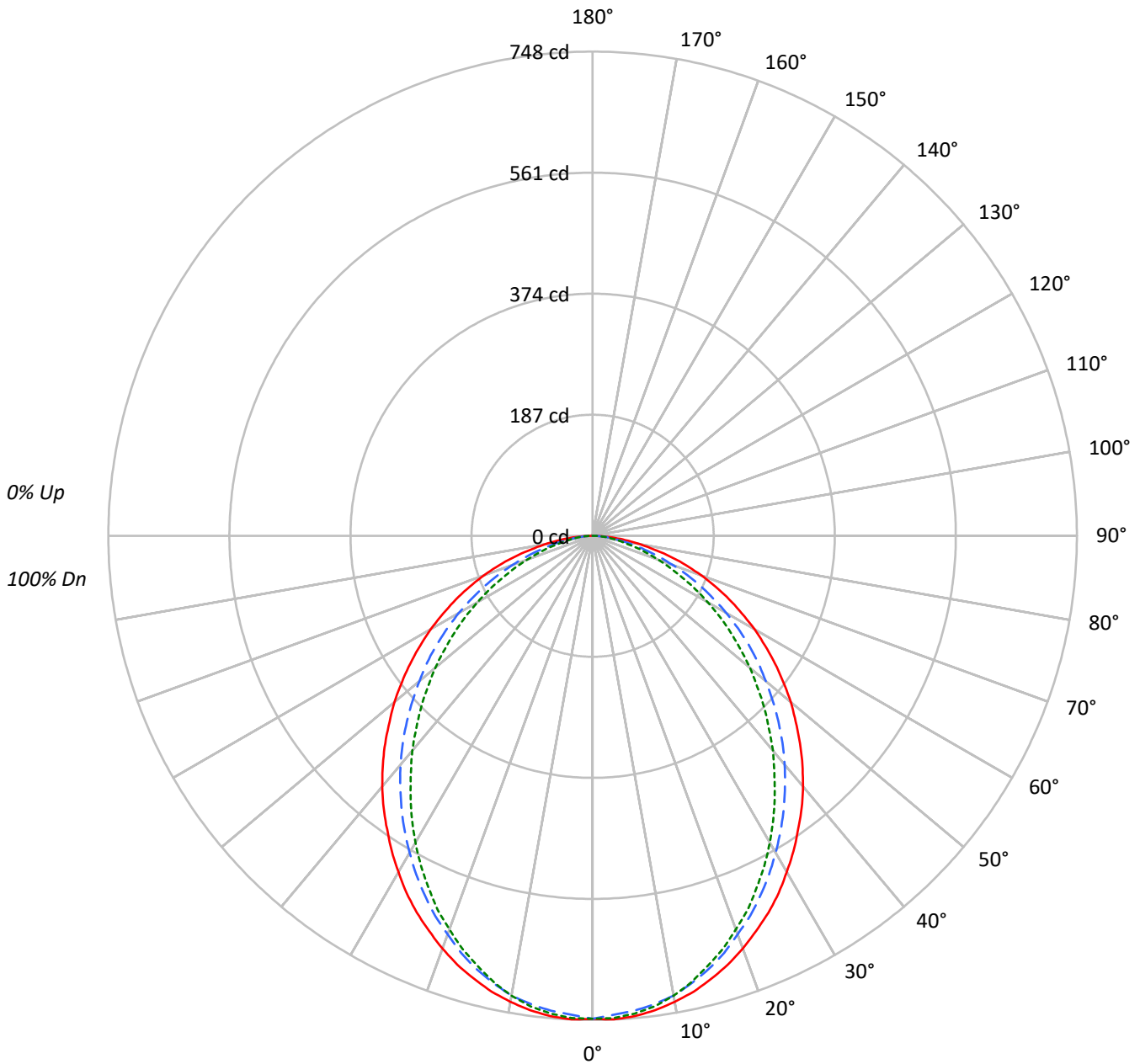
Lumens per Lamp: N/A
Luminaire Lumens: 1763.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

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°	12487	12487	12487
5°	12516	12373	12447
10°	12421	12258	12258
15°	12274	12007	11912
20°	12083	11662	11522
25°	11861	11322	11073
30°	11588	10923	10575
35°	11307	10512	10016
40°	11045	10083	9467
45°	10723	9601	8870
50°	10403	9083	8247
55°	10030	8586	7582
60°	9655	7979	6864
65°	9218	7278	6042
70°	8714	6395	5211
75°	8017	5392	4338
80°	7064	4240	3643
85°	5933	3475	3245



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	4.0
10°-20°	196.3	11.1
20°-30°	284.6	16.1
30°-40°	324.2	18.4
40°-50°	316.0	17.9
50°-60°	266.0	15.1
60°-70°	186.4	10.6
70°-80°	95.5	5.4
80°-90°	23.8	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°	551.1	31.3
0°-40°	875.3	49.6
0°-60°	1457.3	82.7
0°-90°	1763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1763.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	746	746	746	746	746	
5°	745	743	737	742	741	71
15°	708	705	693	693	688	200
25°	642	634	613	606	600	296
35°	554	540	515	498	490	347
45°	453	437	406	383	375	349
55°	344	326	294	269	260	307
65°	233	214	184	161	153	230
75°	124	107	83	71	67	131
85°	31	21	18	18	17	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.2	746.2	746.2	746.2	746.2
2.5°	747.9	746.2	740.6	746.2	745.6
5°	745.1	742.9	736.6	742.2	741.0
7.5°	739.4	737.1	729.8	734.3	733.3
10°	731.0	729.3	721.4	723.1	721.4
12.5°	721.4	719.1	707.8	708.9	706.2
15°	708.5	705.1	693.1	692.6	687.6
17.5°	694.9	689.9	675.7	673.0	669.0
20°	678.5	673.0	654.9	652.0	647.0
22.5°	660.5	654.9	635.8	629.6	625.5
25°	642.4	634.0	613.2	605.8	599.7
27.5°	622.3	612.0	590.1	580.5	574.4
30°	599.7	589.0	565.3	552.4	547.3
32.5°	577.6	564.8	540.5	525.9	519.2
35°	553.5	540.0	514.6	498.3	490.3
37.5°	530.4	513.9	488.0	469.0	460.9
40°	505.6	488.6	461.6	440.1	433.4
42.5°	479.5	462.1	433.9	413.7	402.9
45°	453.1	436.9	405.7	383.3	374.8
47.5°	425.4	408.7	377.5	354.5	344.9
50°	399.6	381.0	348.9	325.2	316.8
52.5°	371.3	352.3	322.3	296.4	287.9
55°	343.8	325.8	294.3	268.9	259.9
57.5°	315.6	296.4	266.1	241.2	233.3
60°	288.5	268.9	238.4	213.6	205.1
62.5°	259.9	241.2	210.2	187.7	179.2
65°	232.8	213.6	183.8	161.1	152.6
67.5°	205.6	186.6	157.8	136.4	129.7
70°	178.1	158.9	130.7	113.2	106.5
72.5°	151.1	132.5	106.5	90.7	86.9
75°	124.0	107.1	83.4	71.1	67.1
77.5°	96.3	82.8	63.0	53.6	50.2
80°	73.3	59.8	44.0	38.9	37.8
82.5°	50.7	38.9	29.4	27.5	27.1
85°	30.9	20.8	18.1	17.5	16.9
87.5°	13.1	9.0	8.5	8.5	7.8
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)