

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: P888306

Luminaire Tested: **DPT5-4F021-127V60-F-XX-UDD_2700K**

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: P888306
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-F-XX-UDD_2700K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

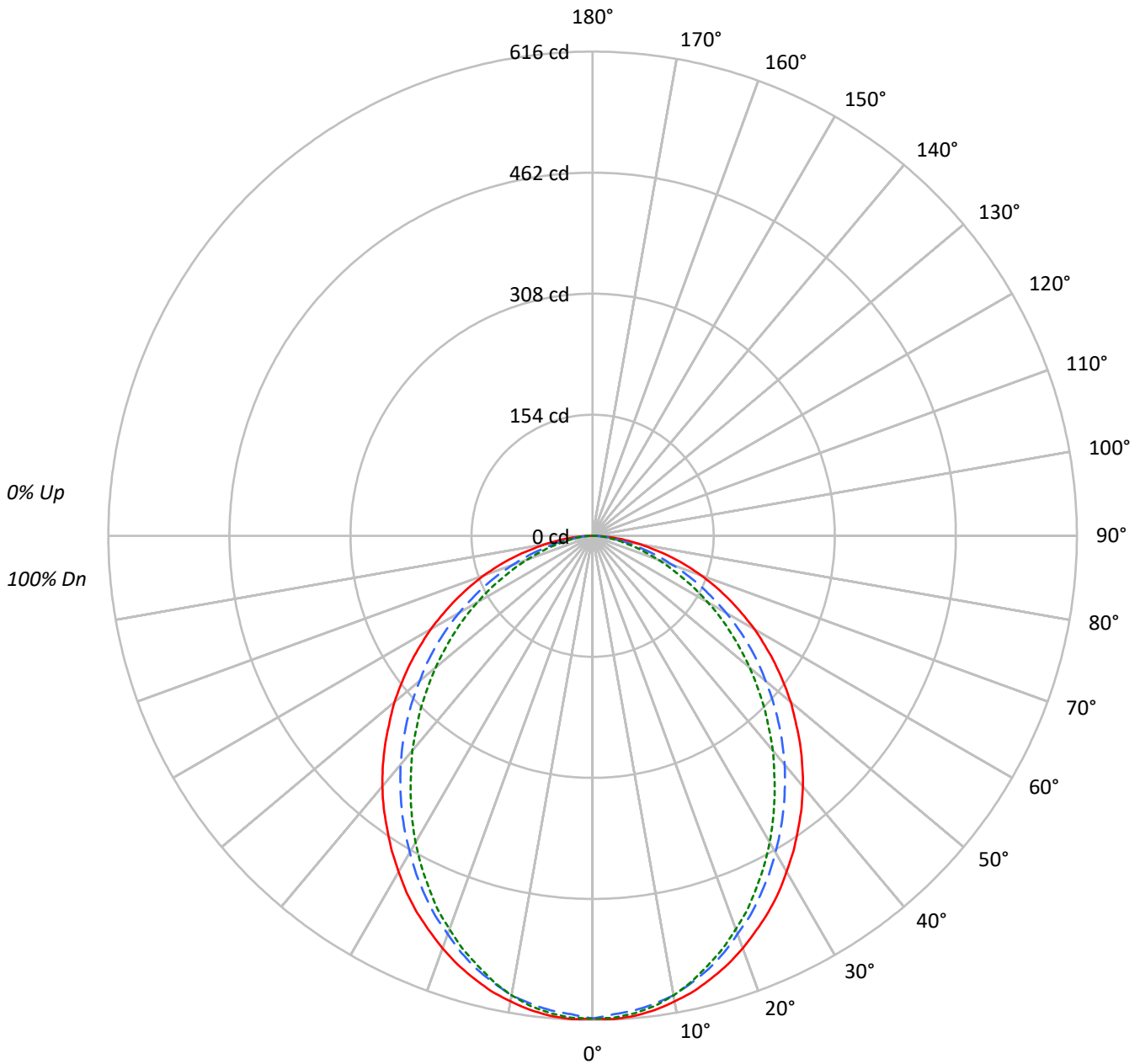
Lumens per Lamp: N/A
Luminaire Lumens: 1451.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

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°	10278	10278	10278
5°	10300	10184	10245
10°	10222	10088	10088
15°	10102	9883	9804
20°	9944	9598	9483
25°	9762	9317	9112
30°	9536	8989	8703
35°	9305	8651	8243
40°	9089	8299	7792
45°	8825	7902	7301
50°	8562	7474	6787
55°	8256	7066	6240
60°	7949	6566	5649
65°	7586	5991	4973
70°	7173	5264	4291
75°	6595	4442	3569
80°	5811	3488	2997
85°	4896	2861	2669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	4.0
10°-20°	161.5	11.1
20°-30°	234.2	16.1
30°-40°	266.8	18.4
40°-50°	260.1	17.9
50°-60°	218.9	15.1
60°-70°	153.4	10.6
70°-80°	78.6	5.4
80°-90°	19.6	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°	453.5	31.3
0°-40°	720.4	49.6
0°-60°	1199.4	82.7
0°-90°	1451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	614	614	614	614	614	
5°	613	611	606	611	610	58
15°	583	580	570	570	566	164
25°	529	522	505	499	494	243
35°	456	444	424	410	404	285
45°	373	360	334	315	308	288
55°	283	268	242	221	214	253
65°	192	176	151	133	126	190
75°	102	88	69	58	55	108
85°	26	17	15	14	14	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	614.2	614.2	614.2	614.2	614.2
2.5°	615.6	614.2	609.5	614.2	613.7
5°	613.2	611.4	606.3	610.8	609.9
7.5°	608.6	606.7	600.7	604.4	603.5
10°	601.6	600.2	593.7	595.2	593.7
12.5°	593.7	591.8	582.5	583.5	581.2
15°	583.1	580.3	570.5	570.0	565.9
17.5°	571.9	567.8	556.1	553.9	550.6
20°	558.4	553.9	539.0	536.7	532.5
22.5°	543.6	539.0	523.3	518.2	514.8
25°	528.7	521.8	504.6	498.6	493.5
27.5°	512.1	503.7	485.6	477.8	472.7
30°	493.5	484.8	465.2	454.7	450.4
32.5°	475.4	464.8	444.8	432.8	427.3
35°	455.5	444.4	423.5	410.1	403.5
37.5°	436.5	423.0	401.7	386.0	379.4
40°	416.1	402.2	379.9	362.2	356.7
42.5°	394.7	380.3	357.1	340.5	331.6
45°	372.9	359.6	333.9	315.4	308.5
47.5°	350.1	336.3	310.7	291.8	283.9
50°	328.9	313.5	287.1	267.7	260.7
52.5°	305.6	290.0	265.3	243.9	237.0
55°	283.0	268.1	242.2	221.3	213.9
57.5°	259.8	243.9	219.0	198.5	192.0
60°	237.5	221.3	196.2	175.8	168.8
62.5°	213.9	198.5	173.0	154.4	147.5
65°	191.6	175.8	151.3	132.6	125.6
67.5°	169.2	153.6	129.8	112.3	106.8
70°	146.6	130.8	107.6	93.2	87.7
72.5°	124.3	109.0	87.7	74.7	71.5
75°	102.0	88.1	68.7	58.5	55.2
77.5°	79.2	68.1	51.9	44.1	41.3
80°	60.3	49.2	36.2	32.0	31.1
82.5°	41.7	32.0	24.2	22.6	22.3
85°	25.5	17.1	14.9	14.4	13.9
87.5°	10.8	7.4	7.0	7.0	6.5
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)