

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: P888364

Luminaire Tested: **DPT5-4F029-127V60-F-XX-UDD_4000K**

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: P888364
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: DPT5-4F029-127V60-F-XX-UDD_4000K
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

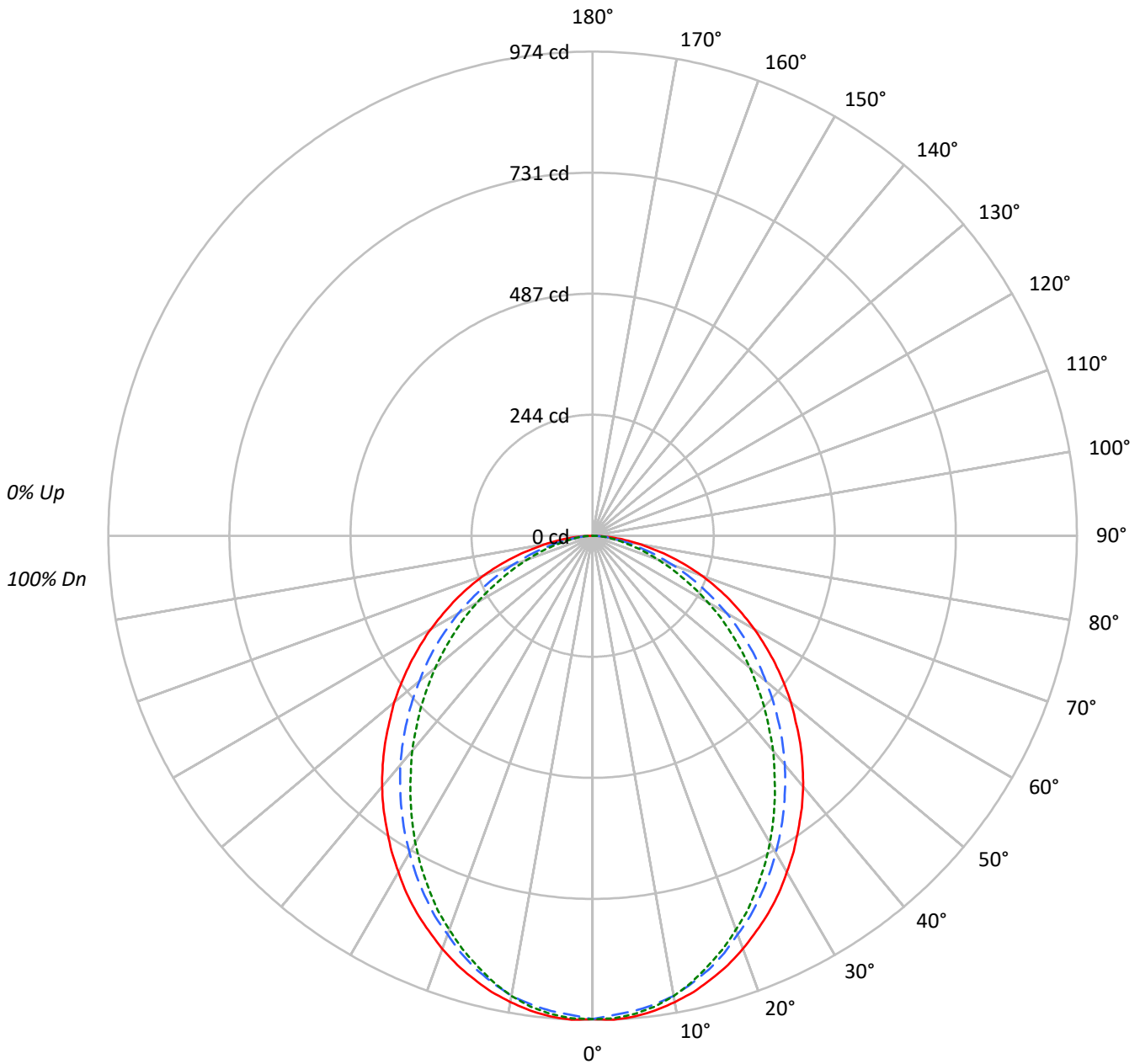
Lumens per Lamp: N/A
Luminaire Lumens: 2297.0 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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°	11580	11580	11580
5°	11606	11473	11543
10°	11518	11367	11367
15°	11382	11135	11046
20°	11204	10813	10684
25°	10999	10498	10267
30°	10744	10128	9807
35°	10484	9747	9287
40°	10241	9350	8779
45°	9942	8903	8224
50°	9646	8421	7647
55°	9302	7961	7031
60°	8954	7398	6364
65°	8547	6749	5605
70°	8082	5930	4833
75°	7431	5002	4022
80°	6550	3930	3381
85°	5507	3225	3020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	4.0
10°-20°	255.7	11.1
20°-30°	370.8	16.1
30°-40°	422.4	18.4
40°-50°	411.7	17.9
50°-60°	346.5	15.1
60°-70°	242.8	10.6
70°-80°	124.5	5.4
80°-90°	31.0	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°	718.0	31.3
0°-40°	1140.4	49.6
0°-60°	1898.6	82.7
0°-90°	2297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	971	968	960	967	966	92
15°	923	919	903	902	896	260
25°	837	826	799	789	781	385
35°	721	704	670	649	639	452
45°	590	569	529	499	488	455
55°	448	424	383	350	339	401
65°	303	278	240	210	199	300
75°	162	140	109	93	87	171
85°	40	27	24	23	22	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.3	972.3	972.3	972.3	972.3
2.5°	974.5	972.3	964.9	972.3	971.5
5°	970.8	967.9	959.7	967.0	965.5
7.5°	963.4	960.4	950.9	956.7	955.4
10°	952.4	950.2	939.9	942.2	939.9
12.5°	939.9	936.9	922.1	923.6	920.1
15°	923.1	918.6	903.1	902.4	895.9
17.5°	905.4	898.9	880.3	876.8	871.6
20°	884.0	876.8	853.2	849.5	843.0
22.5°	860.6	853.2	828.4	820.3	815.0
25°	837.0	826.0	798.9	789.3	781.3
27.5°	810.7	797.4	768.8	756.4	748.3
30°	781.3	767.4	736.5	719.7	713.1
32.5°	752.6	735.8	704.2	685.1	676.4
35°	721.1	703.5	670.4	649.2	638.8
37.5°	691.0	669.6	635.8	611.0	600.6
40°	658.7	636.6	601.4	573.4	564.7
42.5°	624.8	602.1	565.3	539.0	525.0
45°	590.3	569.2	528.6	499.3	488.3
47.5°	554.2	532.4	491.9	461.9	449.4
50°	520.6	496.4	454.5	423.8	412.7
52.5°	483.8	459.0	419.9	386.2	375.1
55°	448.0	424.4	383.4	350.3	338.6
57.5°	411.2	386.2	346.7	314.2	304.0
60°	375.9	350.3	310.6	278.3	267.2
62.5°	338.6	314.2	273.9	244.5	233.5
65°	303.3	278.3	239.5	209.9	198.9
67.5°	267.9	243.1	205.5	177.8	169.0
70°	232.1	207.0	170.3	147.5	138.8
72.5°	196.8	172.6	138.8	118.2	113.2
75°	161.5	139.5	108.7	92.6	87.4
77.5°	125.5	107.9	82.1	69.9	65.4
80°	95.5	77.9	57.3	50.7	49.3
82.5°	66.1	50.7	38.3	35.8	35.3
85°	40.3	27.1	23.6	22.7	22.1
87.5°	17.0	11.7	11.0	11.0	10.2
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)