

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: P888324

Luminaire Tested: **DPT5-4F021-61S27-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: P888324
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: DPT5-4F021-61S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

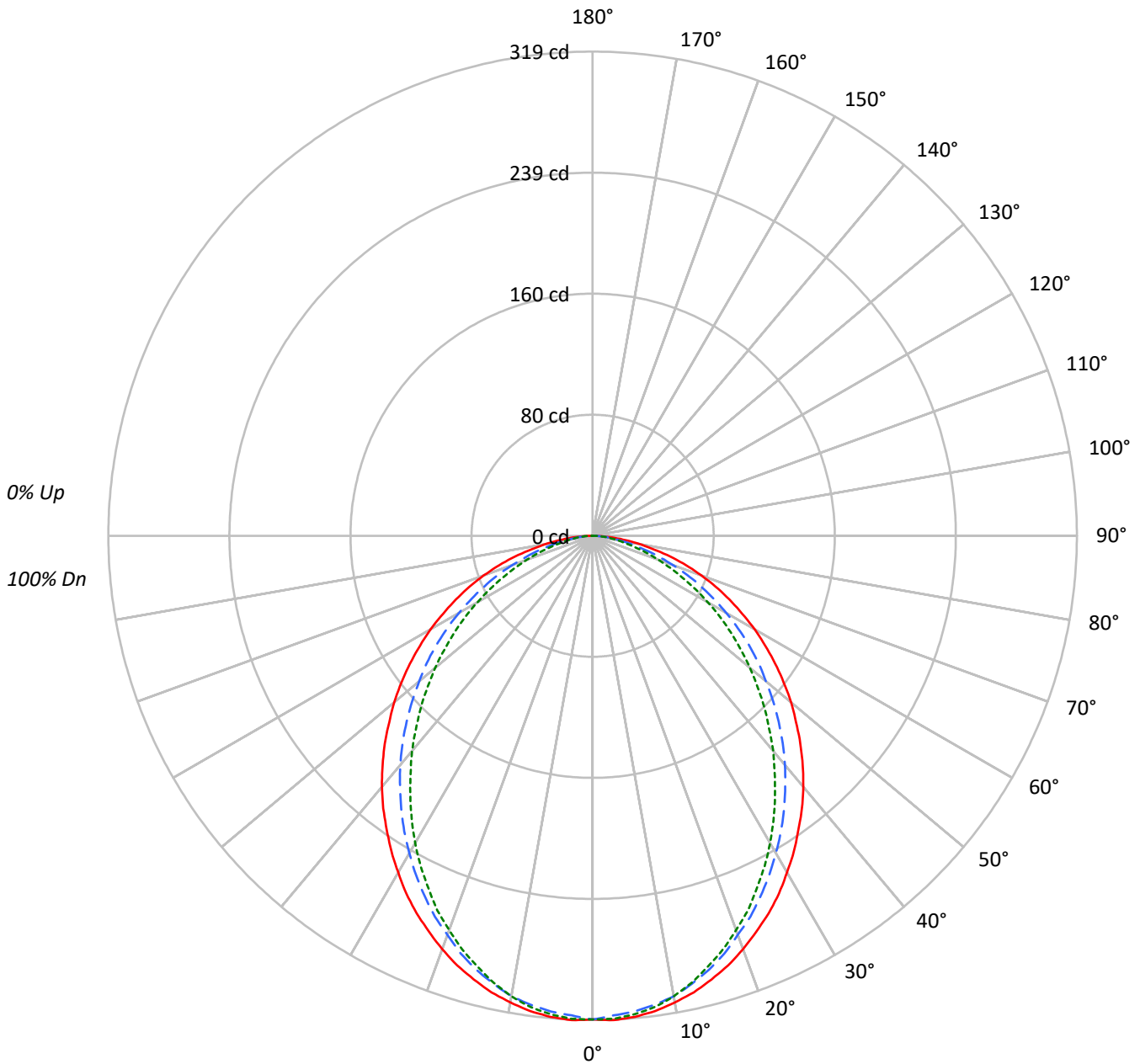
Lumens per Lamp: N/A
Luminaire Lumens: 753.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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

TEST NUMBER: P888324

CATALOG NUMBER: DPT5-4F021-61S27-F-XX-UDD

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°	5333	5333	5333
5°	5345	5285	5316
10°	5305	5235	5235
15°	5242	5128	5088
20°	5161	4981	4922
25°	5066	4836	4729
30°	4948	4664	4518
35°	4829	4490	4278
40°	4716	4306	4043
45°	4579	4101	3789
50°	4444	3879	3522
55°	4286	3667	3238
60°	4123	3407	2932
65°	3936	3108	2582
70°	3723	2730	2226
75°	3427	2302	1856
80°	3016	1812	1561
85°	2534	1478	1382



TEST NUMBER: P888324

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.0	4.0
10°-20°	83.8	11.1
20°-30°	121.6	16.1
30°-40°	138.5	18.4
40°-50°	135.0	17.9
50°-60°	113.6	15.1
60°-70°	79.6	10.6
70°-80°	40.8	5.4
80°-90°	10.2	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°	235.4	31.3
0°-40°	373.8	49.6
0°-60°	622.4	82.7
0°-90°	753.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	753.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	319	319	319	319	319	
5°	318	317	315	317	316	30
15°	303	301	296	296	294	85
25°	274	271	262	259	256	126
35°	236	231	220	213	209	148
45°	194	187	173	164	160	149
55°	147	139	126	115	111	131
65°	99	91	78	69	65	98
75°	53	46	36	30	29	56
85°	13	9	8	8	7	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	318.7	318.7	318.7	318.7	318.7
2.5°	319.4	318.7	316.3	318.7	318.5
5°	318.2	317.3	314.6	317.0	316.5
7.5°	315.8	314.8	311.7	313.6	313.2
10°	312.2	311.5	308.1	308.9	308.1
12.5°	308.1	307.1	302.3	302.8	301.6
15°	302.6	301.1	296.0	295.8	293.7
17.5°	296.8	294.7	288.6	287.4	285.7
20°	289.8	287.4	279.7	278.5	276.4
22.5°	282.1	279.7	271.6	268.9	267.2
25°	274.4	270.8	261.9	258.8	256.1
27.5°	265.8	261.4	252.0	248.0	245.3
30°	256.1	251.6	241.4	235.9	233.8
32.5°	246.7	241.2	230.9	224.6	221.7
35°	236.4	230.6	219.8	212.8	209.4
37.5°	226.5	219.5	208.4	200.3	196.9
40°	215.9	208.7	197.1	188.0	185.1
42.5°	204.8	197.4	185.3	176.7	172.1
45°	193.5	186.6	173.3	163.7	160.1
47.5°	181.7	174.5	161.2	151.4	147.3
50°	170.7	162.7	149.0	138.9	135.3
52.5°	158.6	150.5	137.7	126.6	123.0
55°	146.9	139.1	125.7	114.8	111.0
57.5°	134.8	126.6	113.6	103.0	99.7
60°	123.2	114.8	101.8	91.2	87.6
62.5°	111.0	103.0	89.8	80.2	76.5
65°	99.4	91.2	78.5	68.8	65.2
67.5°	87.8	79.7	67.4	58.3	55.4
70°	76.1	67.9	55.8	48.4	45.5
72.5°	64.5	56.6	45.5	38.8	37.1
75°	53.0	45.7	35.6	30.4	28.7
77.5°	41.1	35.4	26.9	22.9	21.4
80°	31.3	25.5	18.8	16.6	16.2
82.5°	21.7	16.6	12.5	11.7	11.6
85°	13.2	8.9	7.7	7.5	7.2
87.5°	5.6	3.8	3.6	3.6	3.3
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)