

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: P888016

Luminaire Tested: **DPT5-4F021-109S27-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: P888016
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: DPT5-4F021-109S27-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

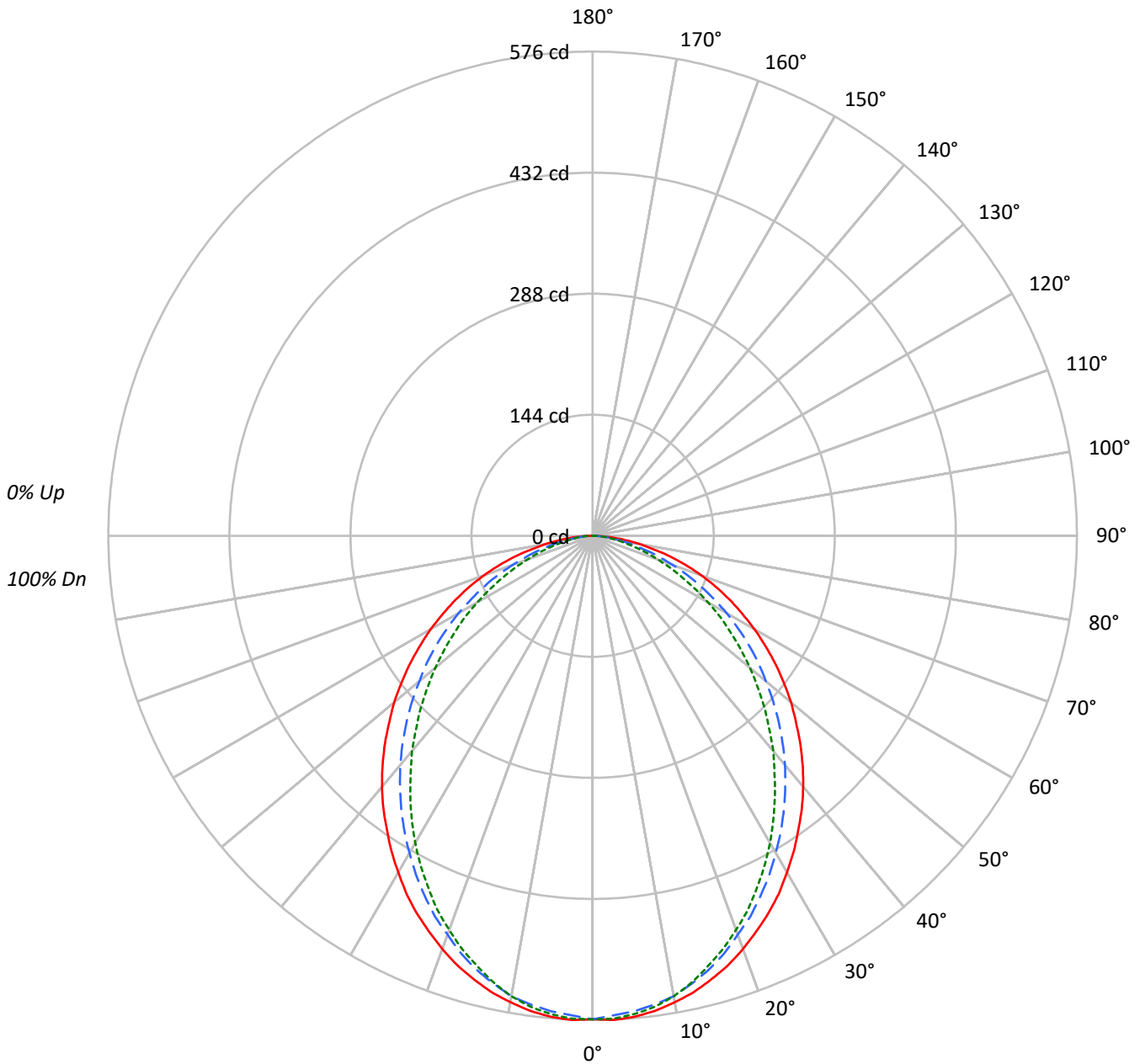
Lumens per Lamp: N/A
Luminaire Lumens: 1359.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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: P888016

CATALOG NUMBER: DPT5-4F021-109S27-A-XX-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P888016

CATALOG NUMBER: DPT5-4F021-109S27-A-XX-UDD

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°	9625	9625	9625
5°	9649	9538	9595
10°	9575	9449	9449
15°	9461	9256	9182
20°	9313	8989	8882
25°	9143	8726	8536
30°	8933	8419	8152
35°	8715	8104	7722
40°	8513	7772	7298
45°	8266	7402	6837
50°	8018	7000	6357
55°	7734	6620	5844
60°	7443	6148	5291
65°	7107	5611	4660
70°	6718	4927	4017
75°	6181	4157	3343
80°	5445	3267	2814
85°	4589	2669	2515



TEST NUMBER: P888016

CATALOG NUMBER: DPT5-4F021-109S27-A-XX-UDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	4.0
10°-20°	151.3	11.1
20°-30°	219.4	16.1
30°-40°	249.9	18.4
40°-50°	243.6	17.9
50°-60°	205.0	15.1
60°-70°	143.7	10.6
70°-80°	73.6	5.4
80°-90°	18.4	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°	424.8	31.3
0°-40°	674.7	49.6
0°-60°	1123.3	82.7
0°-90°	1359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1359.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	575	575	575	575	575	
5°	574	573	568	572	571	54
15°	546	544	534	534	530	154
25°	495	489	473	467	462	228
35°	427	416	397	384	378	267
45°	349	337	313	295	289	269
55°	265	251	227	207	200	237
65°	180	165	142	124	118	178
75°	96	82	64	55	52	101
85°	24	16	14	14	13	28
90°	0	0	0	0	0	



TEST NUMBER: P888016

CATALOG NUMBER: DPT5-4F021-109S27-A-XX-UDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	575.2	575.2	575.2	575.2	575.2
2.5°	576.5	575.2	570.9	575.2	574.8
5°	574.4	572.7	567.8	572.1	571.2
7.5°	570.0	568.2	562.6	566.1	565.2
10°	563.5	562.2	556.1	557.4	556.1
12.5°	556.1	554.3	545.6	546.5	544.4
15°	546.1	543.5	534.3	533.9	530.0
17.5°	535.7	531.8	520.8	518.7	515.7
20°	523.0	518.7	504.8	502.6	498.8
22.5°	509.2	504.8	490.1	485.3	482.2
25°	495.2	488.7	472.6	467.0	462.3
27.5°	479.7	471.8	454.8	447.5	442.8
30°	462.3	454.0	435.7	425.8	421.9
32.5°	445.2	435.3	416.6	405.4	400.2
35°	426.6	416.2	396.7	384.1	378.0
37.5°	408.8	396.2	376.2	361.5	355.3
40°	389.7	376.7	355.8	339.3	334.1
42.5°	369.7	356.2	334.4	318.9	310.6
45°	349.3	336.8	312.8	295.4	288.9
47.5°	327.9	315.0	291.0	273.3	265.9
50°	308.0	293.7	268.9	250.7	244.2
52.5°	286.2	271.6	248.5	228.5	221.9
55°	265.1	251.1	226.9	207.3	200.3
57.5°	243.3	228.5	205.1	185.9	179.9
60°	222.4	207.3	183.7	164.6	158.1
62.5°	200.3	185.9	162.1	144.7	138.1
65°	179.5	164.6	141.7	124.2	117.7
67.5°	158.5	143.8	121.6	105.2	100.0
70°	137.3	122.5	100.7	87.3	82.1
72.5°	116.4	102.1	82.1	70.0	67.0
75°	95.6	82.5	64.3	54.8	51.7
77.5°	74.2	63.8	48.6	41.3	38.7
80°	56.5	46.1	33.9	30.0	29.2
82.5°	39.1	30.0	22.6	21.2	20.9
85°	23.9	16.0	13.9	13.5	13.1
87.5°	10.1	6.9	6.5	6.5	6.0
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)