

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: P888313

Luminaire Tested: **DPT5-4F021-37S27-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: P888313
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: DPT5-4F021-37S27-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

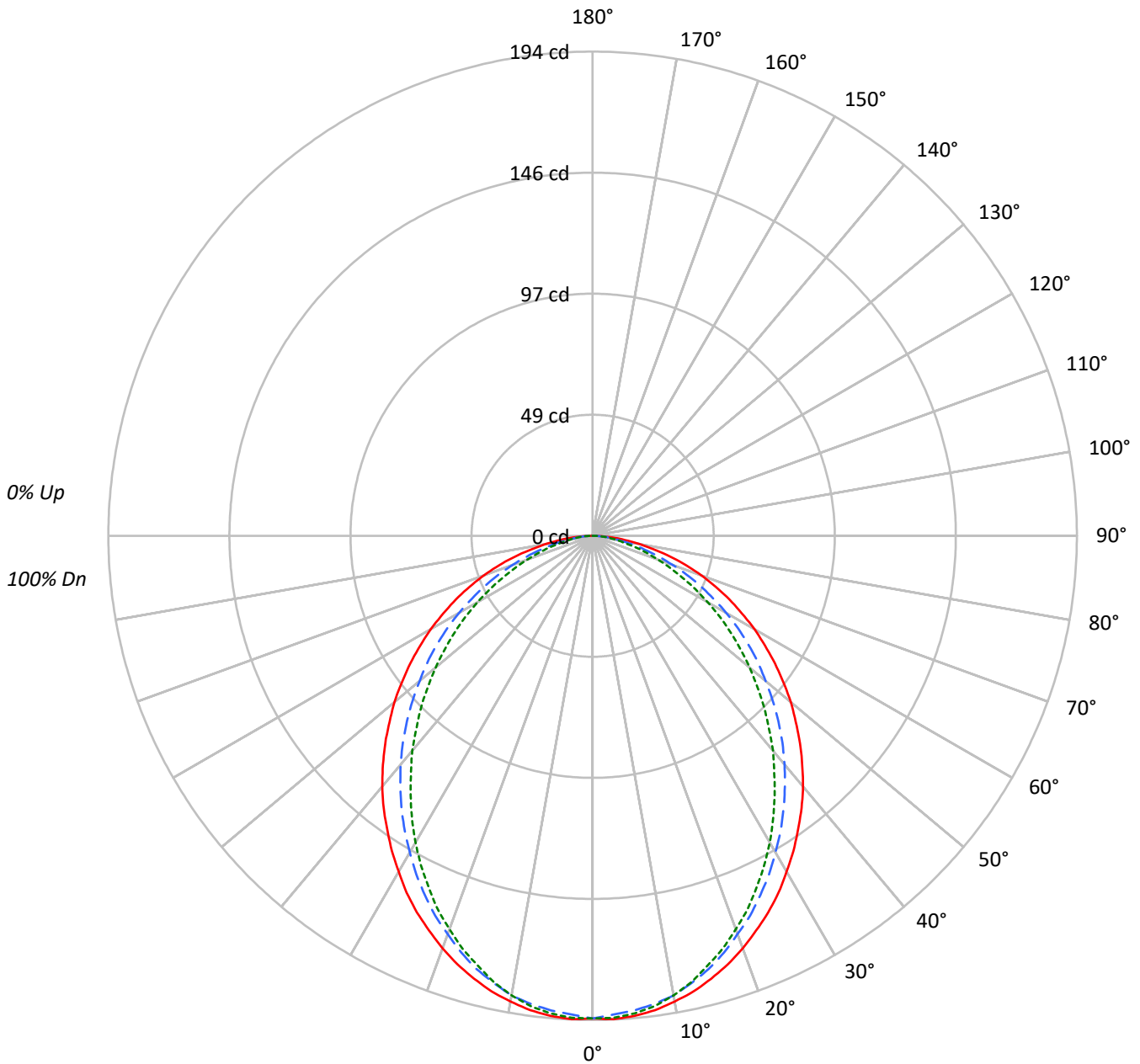
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 457.0 lumens
Efficiency: N/A
Efficacy: 91.4 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): 5
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: P888313
CATALOG NUMBER: DPT5-4F021-37S27-F-XX-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P888313

CATALOG NUMBER: DPT5-4F021-37S27-F-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°	3236	3236	3236
5°	3244	3207	3227
10°	3220	3177	3177
15°	3182	3113	3087
20°	3132	3024	2986
25°	3074	2934	2869
30°	3003	2831	2742
35°	2931	2725	2596
40°	2864	2613	2455
45°	2781	2490	2300
50°	2697	2353	2137
55°	2599	2226	1966
60°	2503	2068	1780
65°	2392	1885	1568
70°	2260	1659	1350
75°	2075	1397	1125
80°	1831	1099	944
85°	1536	902	845



TEST NUMBER: P888313
 CATALOG NUMBER: DPT5-4F021-37S27-F-XX-UDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.2	4.0
10°-20°	50.9	11.1
20°-30°	73.8	16.1
30°-40°	84.0	18.4
40°-50°	81.9	17.9
50°-60°	68.9	15.1
60°-70°	48.3	10.6
70°-80°	24.8	5.4
80°-90°	6.2	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°	142.8	31.3
0°-40°	226.9	49.6
0°-60°	377.7	82.7
0°-90°	457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	193	193	193	193	193	
5°	193	193	191	192	192	18
15°	184	183	180	180	178	52
25°	166	164	159	157	155	77
35°	144	140	133	129	127	90
45°	118	113	105	99	97	91
55°	89	84	76	70	67	80
65°	60	55	48	42	40	60
75°	32	28	22	18	17	34
85°	8	5	5	4	4	9
90°	0	0	0	0	0	



TEST NUMBER: P888313

CATALOG NUMBER: DPT5-4F021-37S27-F-XX-UDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	193.4	193.4	193.4	193.4	193.4
2.5°	193.9	193.4	192.0	193.4	193.3
5°	193.1	192.6	190.9	192.4	192.1
7.5°	191.7	191.1	189.2	190.3	190.1
10°	189.5	189.0	187.0	187.4	187.0
12.5°	187.0	186.4	183.5	183.8	183.1
15°	183.7	182.8	179.7	179.5	178.2
17.5°	180.1	178.8	175.1	174.4	173.4
20°	175.9	174.4	169.8	169.0	167.7
22.5°	171.2	169.8	164.8	163.2	162.1
25°	166.5	164.3	158.9	157.0	155.4
27.5°	161.3	158.6	153.0	150.5	148.9
30°	155.4	152.7	146.5	143.2	141.9
32.5°	149.7	146.4	140.1	136.3	134.6
35°	143.5	140.0	133.4	129.2	127.1
37.5°	137.5	133.2	126.5	121.6	119.5
40°	131.1	126.7	119.6	114.1	112.4
42.5°	124.3	119.8	112.5	107.2	104.4
45°	117.5	113.3	105.2	99.3	97.2
47.5°	110.3	105.9	97.9	91.9	89.4
50°	103.6	98.8	90.4	84.3	82.1
52.5°	96.3	91.3	83.5	76.8	74.6
55°	89.1	84.4	76.3	69.7	67.4
57.5°	81.8	76.8	69.0	62.5	60.5
60°	74.8	69.7	61.8	55.4	53.2
62.5°	67.4	62.5	54.5	48.6	46.4
65°	60.4	55.4	47.6	41.8	39.6
67.5°	53.3	48.4	40.9	35.4	33.6
70°	46.2	41.2	33.9	29.3	27.6
72.5°	39.2	34.3	27.6	23.5	22.5
75°	32.1	27.8	21.6	18.4	17.4
77.5°	25.0	21.5	16.3	13.9	13.0
80°	19.0	15.5	11.4	10.1	9.8
82.5°	13.1	10.1	7.6	7.1	7.0
85°	8.0	5.4	4.7	4.5	4.4
87.5°	3.4	2.3	2.2	2.2	2.0
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)