

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: P888039

Luminaire Tested: **DPT5-4F021-37S30-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: P888039
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: DPT5-4F021-37S30-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

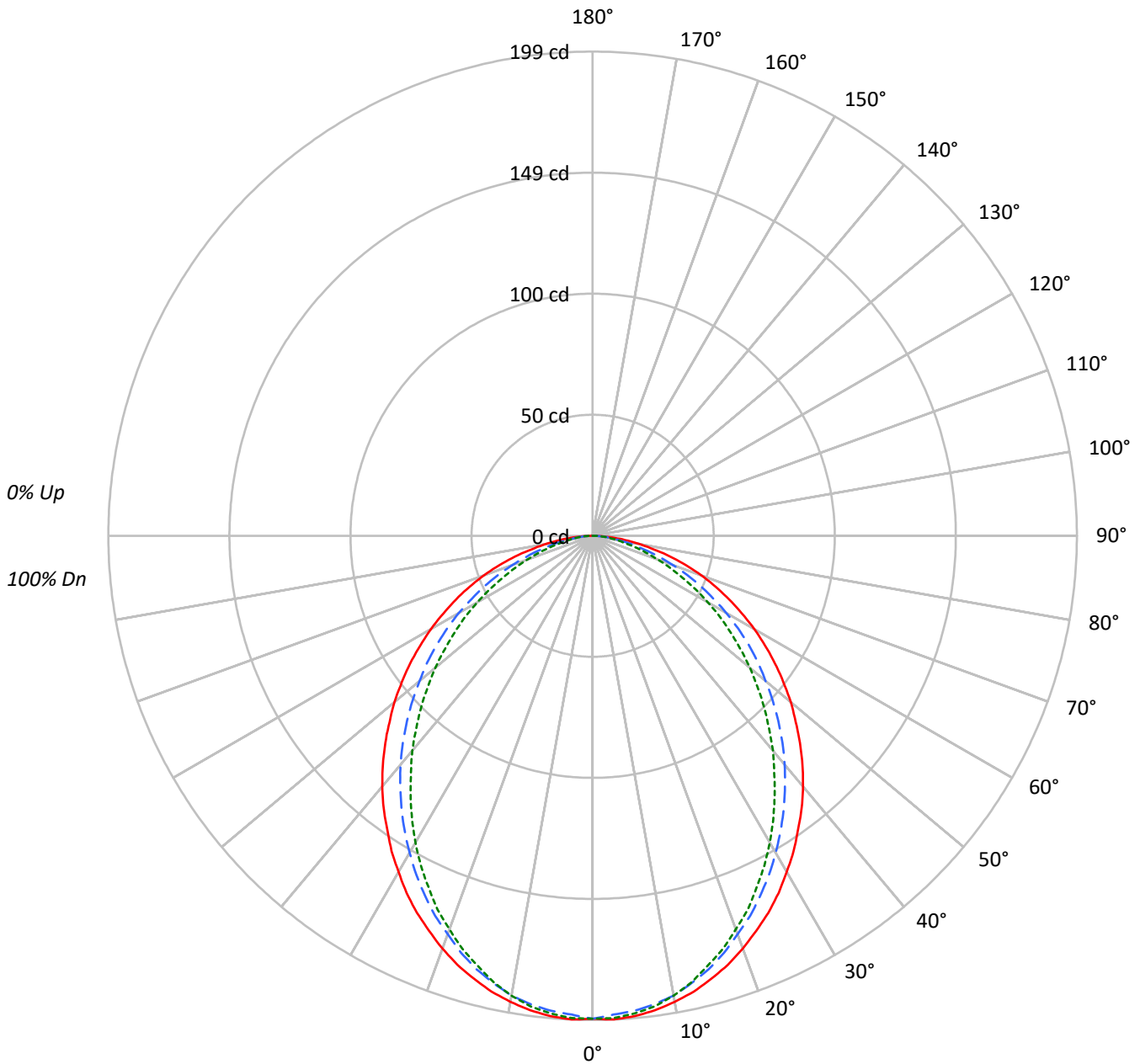
Lumens per Lamp: N/A
Luminaire Lumens: 469.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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	30																			
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°	3322	3322	3322
5°	3329	3292	3311
10°	3305	3261	3261
15°	3266	3195	3169
20°	3214	3102	3065
25°	3155	3011	2945
30°	3082	2906	2813
35°	3007	2797	2664
40°	2938	2682	2519
45°	2852	2553	2359
50°	2767	2416	2195
55°	2669	2284	2016
60°	2570	2122	1827
65°	2451	1936	1608
70°	2319	1703	1385
75°	2134	1435	1157
80°	1879	1127	973
85°	1574	922	864



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.7	4.0
10°-20°	52.2	11.1
20°-30°	75.7	16.1
30°-40°	86.2	18.4
40°-50°	84.1	17.9
50°-60°	70.7	15.1
60°-70°	49.6	10.6
70°-80°	25.4	5.4
80°-90°	6.3	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°	146.6	31.3
0°-40°	232.8	49.6
0°-60°	387.6	82.7
0°-90°	469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	198	198	198	198	198	
5°	198	198	196	197	197	19
15°	188	188	184	184	183	53
25°	171	169	163	161	160	79
35°	147	144	137	132	130	92
45°	120	116	108	102	100	93
55°	92	87	78	72	69	82
65°	62	57	49	43	41	61
75°	33	28	22	19	18	35
85°	8	6	5	5	4	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	198.5	198.5	198.5	198.5	198.5
2.5°	199.0	198.5	197.0	198.5	198.4
5°	198.2	197.6	196.0	197.4	197.1
7.5°	196.7	196.1	194.2	195.3	195.1
10°	194.5	194.0	191.9	192.4	191.9
12.5°	191.9	191.3	188.3	188.6	187.9
15°	188.5	187.6	184.4	184.3	182.9
17.5°	184.9	183.5	179.7	179.0	178.0
20°	180.5	179.0	174.2	173.5	172.1
22.5°	175.7	174.2	169.1	167.5	166.4
25°	170.9	168.6	163.1	161.2	159.5
27.5°	165.5	162.8	157.0	154.4	152.8
30°	159.5	156.7	150.4	147.0	145.6
32.5°	153.7	150.2	143.8	139.9	138.1
35°	147.2	143.6	136.9	132.5	130.4
37.5°	141.1	136.7	129.8	124.8	122.6
40°	134.5	130.0	122.8	117.1	115.3
42.5°	127.6	122.9	115.4	110.0	107.2
45°	120.5	116.2	107.9	102.0	99.7
47.5°	113.2	108.7	100.4	94.3	91.8
50°	106.3	101.3	92.8	86.5	84.3
52.5°	98.8	93.7	85.7	78.8	76.6
55°	91.5	86.7	78.3	71.5	69.1
57.5°	84.0	78.8	70.8	64.2	62.1
60°	76.8	71.5	63.4	56.8	54.6
62.5°	69.1	64.2	55.9	49.9	47.7
65°	61.9	56.8	48.9	42.9	40.6
67.5°	54.7	49.6	42.0	36.3	34.5
70°	47.4	42.3	34.8	30.1	28.3
72.5°	40.2	35.2	28.3	24.1	23.1
75°	33.0	28.5	22.2	18.9	17.9
77.5°	25.6	22.0	16.8	14.3	13.3
80°	19.5	15.9	11.7	10.3	10.1
82.5°	13.5	10.3	7.8	7.3	7.2
85°	8.2	5.5	4.8	4.6	4.5
87.5°	3.5	2.4	2.3	2.3	2.1
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)