

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: P888037

Luminaire Tested: **DPT5-4F021-127V60-A-XX-UDD_6500K**

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: P888037
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: DPT5-4F021-127V60-A-XX-UDD_6500K
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

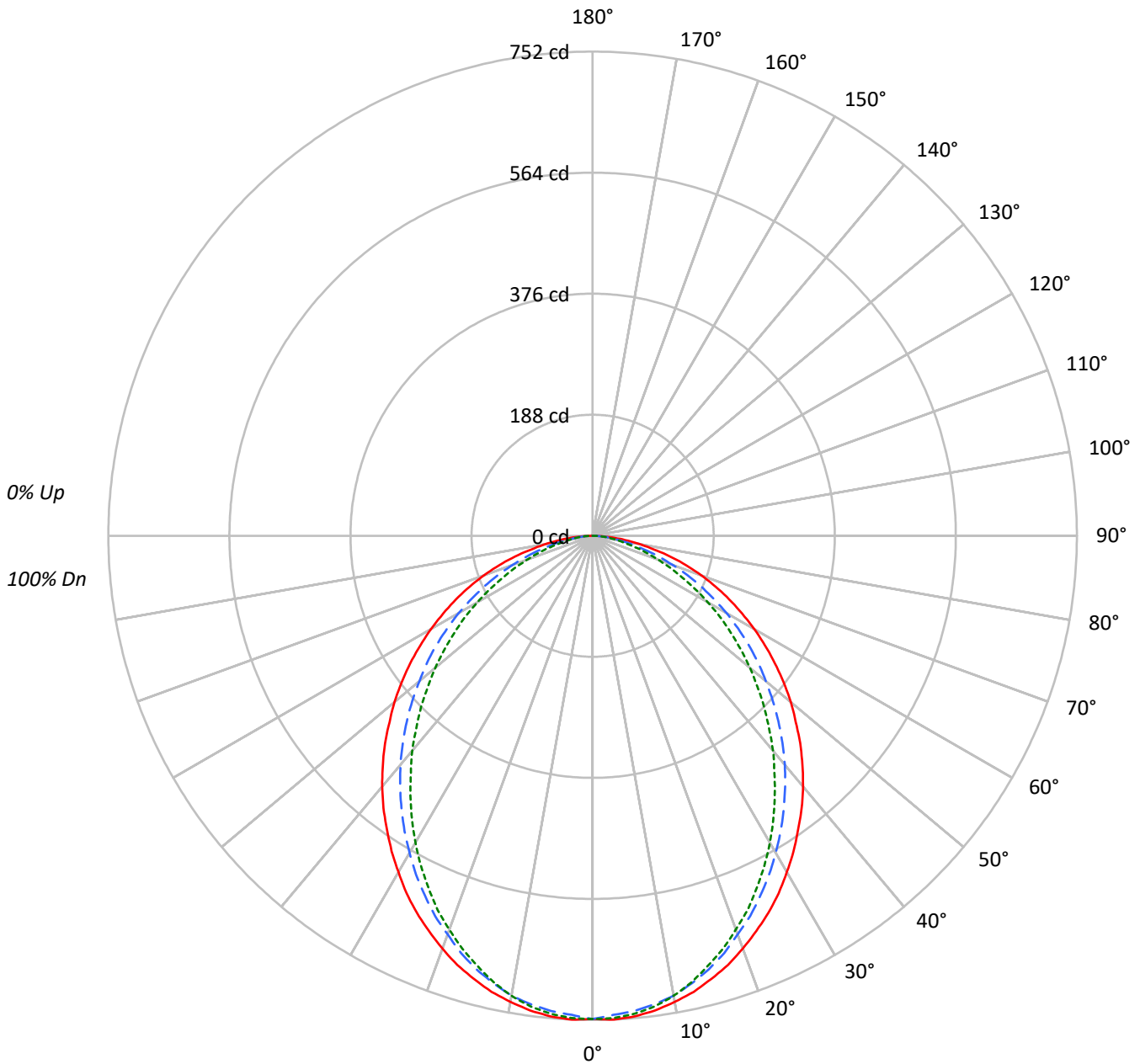
Lumens per Lamp: N/A
Luminaire Lumens: 1773.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 17
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°	12559	12559	12559
5°	12586	12444	12518
10°	12491	12328	12328
15°	12343	12077	11980
20°	12150	11728	11587
25°	11929	11385	11135
30°	11653	10985	10635
35°	11370	10572	10073
40°	11106	10140	9522
45°	10784	9655	8919
50°	10460	9132	8294
55°	10089	8636	7626
60°	9712	8022	6904
65°	9269	7317	6078
70°	8768	6429	5240
75°	8062	5424	4364
80°	7102	4269	3672
85°	5971	3494	3264



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	4.0
10°-20°	197.4	11.1
20°-30°	286.2	16.1
30°-40°	326.1	18.4
40°-50°	317.8	17.9
50°-60°	267.5	15.1
60°-70°	187.4	10.6
70°-80°	96.1	5.4
80°-90°	24.0	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°	554.2	31.3
0°-40°	880.3	49.6
0°-60°	1465.5	82.7
0°-90°	1773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	749	747	741	746	745	71
15°	712	709	697	696	692	201
25°	646	638	617	609	603	297
35°	557	543	518	501	493	349
45°	456	439	408	385	377	351
55°	346	328	296	270	261	309
65°	234	215	185	162	154	232
75°	125	108	84	72	68	132
85°	31	21	18	18	17	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	750.5	750.5	750.5	750.5	750.5
2.5°	752.2	750.5	744.8	750.5	749.8
5°	749.3	747.1	740.8	746.4	745.2
7.5°	743.6	741.3	734.0	738.5	737.4
10°	735.1	733.4	725.5	727.2	725.5
12.5°	725.5	723.1	711.8	712.9	710.2
15°	712.5	709.1	697.1	696.5	691.5
17.5°	698.9	693.8	679.5	676.8	672.8
20°	682.3	676.8	658.6	655.7	650.7
22.5°	664.3	658.6	639.4	633.1	629.0
25°	646.1	637.6	616.6	609.3	603.1
27.5°	625.8	615.5	593.4	583.8	577.6
30°	603.1	592.3	568.5	555.5	550.4
32.5°	580.9	568.0	543.6	528.8	522.1
35°	556.6	543.0	517.5	501.1	493.1
37.5°	533.4	516.9	490.8	471.6	463.6
40°	508.4	491.4	464.2	442.6	435.9
42.5°	482.3	464.7	436.3	416.0	405.2
45°	455.7	439.4	408.0	385.4	376.9
47.5°	427.8	411.0	379.7	356.5	346.9
50°	401.8	383.1	350.8	327.1	318.6
52.5°	373.5	354.3	324.1	298.1	289.6
55°	345.8	327.6	296.0	270.4	261.4
57.5°	317.4	298.1	267.6	242.6	234.7
60°	290.2	270.4	239.7	214.8	206.3
62.5°	261.4	242.6	211.4	188.7	180.2
65°	234.1	214.8	184.8	162.0	153.5
67.5°	206.8	187.7	158.7	137.2	130.5
70°	179.2	159.8	131.4	113.9	107.1
72.5°	151.9	133.2	107.1	91.3	87.4
75°	124.7	107.7	83.9	71.5	67.5
77.5°	96.8	83.3	63.4	53.9	50.5
80°	73.7	60.1	44.3	39.1	38.1
82.5°	51.0	39.1	29.5	27.7	27.2
85°	31.1	20.9	18.2	17.6	17.0
87.5°	13.1	9.0	8.5	8.5	7.9
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)