

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: P888316

Luminaire Tested: **DPT5-4F021-37S40-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: P888316
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: DPT5-4F021-37S40-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

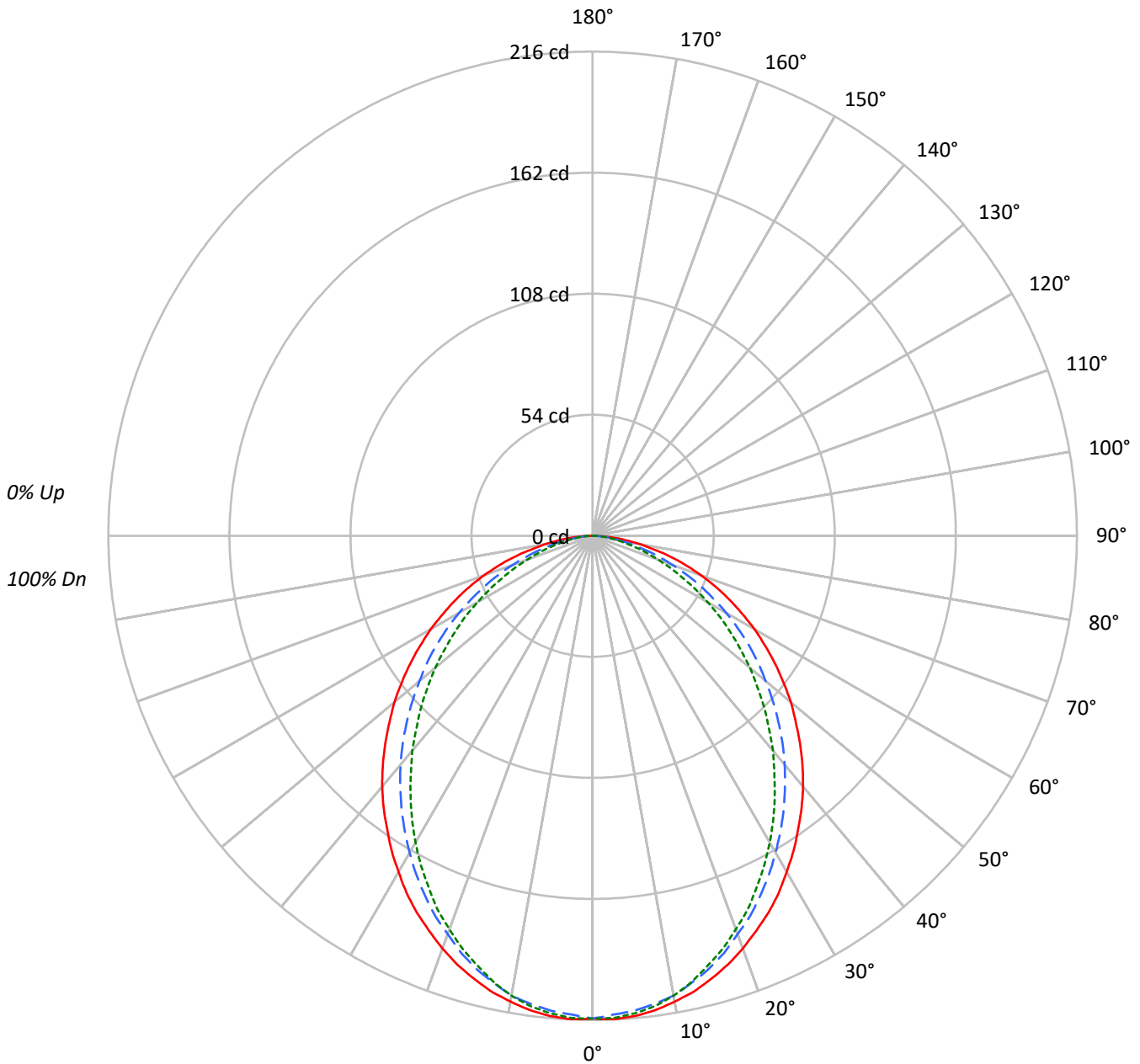
Lumens per Lamp: N/A
Luminaire Lumens: 509.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 1.65' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	3604	3604	3604
5°	3613	3573	3593
10°	3585	3539	3539
15°	3545	3467	3439
20°	3489	3367	3326
25°	3425	3268	3196
30°	3345	3153	3053
35°	3264	3036	2893
40°	3189	2912	2733
45°	3095	2771	2561
50°	3004	2622	2382
55°	2897	2480	2188
60°	2788	2303	1981
65°	2661	2103	1746
70°	2515	1845	1507
75°	2315	1558	1254
80°	2043	1224	1050
85°	1709	998	941



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.3	4.0
10°-20°	56.7	11.1
20°-30°	82.2	16.1
30°-40°	93.6	18.4
40°-50°	91.2	17.9
50°-60°	76.8	15.1
60°-70°	53.8	10.6
70°-80°	27.6	5.4
80°-90°	6.9	1.3
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°	159.1	31.3
0°-40°	252.7	49.6
0°-60°	420.7	82.7
0°-90°	509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	215	215	215	215	215	
5°	215	214	213	214	214	20
15°	205	204	200	200	198	58
25°	186	183	177	175	173	85
35°	160	156	149	144	142	100
45°	131	126	117	111	108	101
55°	99	94	85	78	75	89
65°	67	62	53	46	44	67
75°	36	31	24	20	19	38
85°	9	6	5	5	5	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	215.4	215.4	215.4	215.4	215.4
2.5°	215.9	215.4	213.8	215.4	215.3
5°	215.1	214.5	212.7	214.3	213.9
7.5°	213.5	212.8	210.7	212.0	211.7
10°	211.0	210.6	208.3	208.8	208.3
12.5°	208.3	207.6	204.3	204.7	203.9
15°	204.6	203.6	200.1	200.0	198.5
17.5°	200.6	199.2	195.1	194.3	193.1
20°	195.9	194.3	189.1	188.3	186.8
22.5°	190.7	189.1	183.6	181.8	180.6
25°	185.5	183.0	177.0	174.9	173.1
27.5°	179.7	176.7	170.4	167.6	165.8
30°	173.1	170.1	163.2	159.5	158.0
32.5°	166.8	163.1	156.0	151.8	149.9
35°	159.8	155.9	148.6	143.9	141.6
37.5°	153.1	148.4	140.9	135.4	133.1
40°	146.0	141.1	133.3	127.1	125.1
42.5°	138.5	133.4	125.3	119.4	116.3
45°	130.8	126.1	117.1	110.7	108.2
47.5°	122.8	118.0	109.0	102.4	99.6
50°	115.4	110.0	100.7	93.9	91.5
52.5°	107.2	101.7	93.1	85.6	83.1
55°	99.3	94.1	85.0	77.6	75.0
57.5°	91.1	85.6	76.8	69.6	67.4
60°	83.3	77.6	68.8	61.7	59.2
62.5°	75.0	69.6	60.7	54.2	51.7
65°	67.2	61.7	53.1	46.5	44.1
67.5°	59.4	53.9	45.5	39.4	37.5
70°	51.4	45.9	37.7	32.7	30.8
72.5°	43.6	38.2	30.8	26.2	25.1
75°	35.8	30.9	24.1	20.5	19.4
77.5°	27.8	23.9	18.2	15.5	14.5
80°	21.2	17.3	12.7	11.2	10.9
82.5°	14.6	11.2	8.5	7.9	7.8
85°	8.9	6.0	5.2	5.0	4.9
87.5°	3.8	2.6	2.4	2.4	2.3
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)