

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: P888348

Luminaire Tested: **DPT5-4F029-109S35-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: P888348
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: DPT5-4F029-109S35-F-XX-UDD
Description: 5in Define Recessed Patient with Frosted Diffuse Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

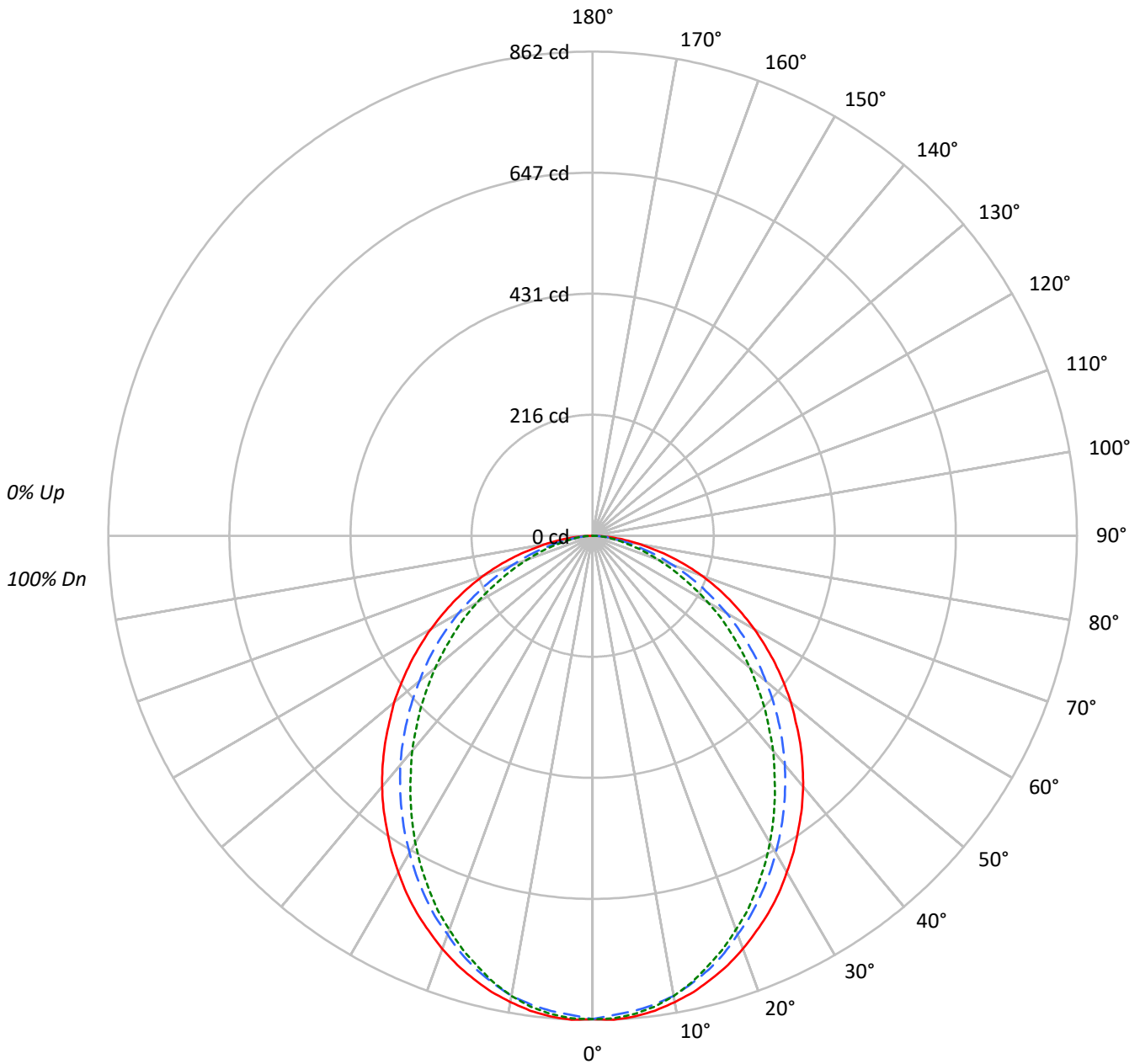
Lumens per Lamp: N/A
Luminaire Lumens: 2033.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 2.31' x H: 0')
CIE Type: Direct

Input Watts (W): 20.6
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: P888348

CATALOG NUMBER: DPT5-4F029-109S35-F-XX-UDD

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°	10248	10248	10248
5°	10272	10155	10216
10°	10193	10059	10059
15°	10073	9855	9776
20°	9916	9571	9456
25°	9735	9292	9087
30°	9510	8964	8679
35°	9279	8627	8220
40°	9064	8276	7770
45°	8800	7881	7279
50°	8538	7454	6768
55°	8233	7047	6223
60°	7925	6548	5633
65°	7566	5971	4960
70°	7152	5248	4276
75°	6580	4427	3562
80°	5795	3484	2990
85°	4878	2856	2665



TEST NUMBER: P888348

CATALOG NUMBER: DPT5-4F029-109S35-F-XX-UDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.0	4.0
10°-20°	226.3	11.1
20°-30°	328.2	16.1
30°-40°	373.9	18.4
40°-50°	364.4	17.9
50°-60°	306.7	15.1
60°-70°	214.9	10.6
70°-80°	110.2	5.4
80°-90°	27.5	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°	635.5	31.3
0°-40°	1009.3	49.6
0°-60°	1680.4	82.7
0°-90°	2033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	859	857	849	856	854	81
15°	817	813	799	799	793	230
25°	741	731	707	699	692	341
35°	638	623	593	575	565	400
45°	522	504	468	442	432	403
55°	396	376	339	310	300	355
65°	268	246	212	186	176	266
75°	143	123	96	82	77	151
85°	36	24	21	20	20	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.5	860.5	860.5	860.5	860.5
2.5°	862.5	860.5	854.0	860.5	859.8
5°	859.2	856.7	849.4	855.8	854.5
7.5°	852.7	850.0	841.6	846.8	845.6
10°	842.9	841.0	831.8	833.9	831.8
12.5°	831.8	829.2	816.2	817.5	814.4
15°	817.0	813.0	799.3	798.7	792.9
17.5°	801.3	795.5	779.2	776.0	771.4
20°	782.4	776.0	755.2	751.9	746.1
22.5°	761.7	755.2	733.2	726.0	721.3
25°	740.8	731.1	707.1	698.6	691.5
27.5°	717.5	705.7	680.4	669.4	662.3
30°	691.5	679.2	651.8	637.0	631.1
32.5°	666.1	651.2	623.3	606.4	598.7
35°	638.2	622.7	593.4	574.6	565.4
37.5°	611.6	592.7	562.8	540.8	531.5
40°	583.0	563.5	532.3	507.5	499.8
42.5°	553.0	532.9	500.3	477.0	464.6
45°	522.5	503.8	467.9	442.0	432.2
47.5°	490.5	471.3	435.3	408.8	397.7
50°	460.8	439.3	402.3	375.0	365.3
52.5°	428.2	406.3	371.7	341.8	332.0
55°	396.5	375.7	339.4	310.1	299.7
57.5°	364.0	341.8	306.8	278.1	269.1
60°	332.7	310.1	274.9	246.3	236.5
62.5°	299.7	278.1	242.4	216.4	206.6
65°	268.5	246.3	211.9	185.8	176.0
67.5°	237.1	215.2	181.9	157.3	149.6
70°	205.4	183.2	150.7	130.6	122.8
72.5°	174.2	152.7	122.8	104.6	100.2
75°	143.0	123.4	96.2	82.0	77.4
77.5°	111.0	95.5	72.7	61.8	57.9
80°	84.5	69.0	50.8	44.8	43.6
82.5°	58.5	44.8	33.9	31.7	31.2
85°	35.7	24.0	20.9	20.1	19.5
87.5°	15.1	10.4	9.8	9.8	9.0
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)