

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: P888050

Luminaire Tested: **DPT5-4F021-61S30-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: P888050
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: DPT5-4F021-61S30-A-XX-UDD
Description: 5in Define Recessed Patient with Asymmetric Lens

Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

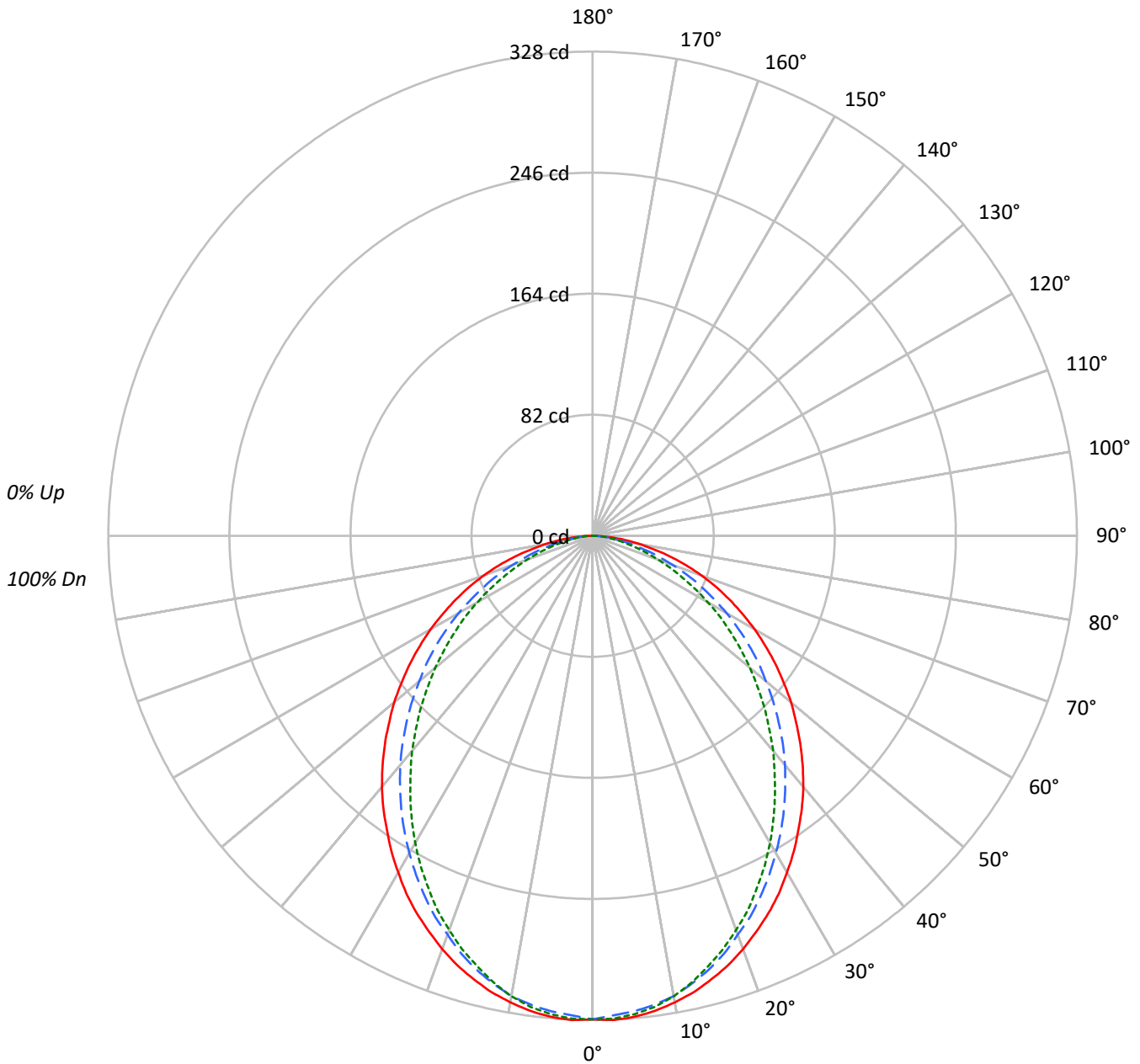
Lumens per Lamp: N/A
Luminaire Lumens: 774.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 1.65' x L: 0.39' x H: 0')
CIE Type: Direct

Input Watts (W): 8.2
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°	5482	5482	5482
5°	5495	5432	5464
10°	5453	5381	5381
15°	5388	5272	5230
20°	5305	5120	5059
25°	5207	4970	4861
30°	5088	4796	4643
35°	4964	4615	4398
40°	4849	4426	4157
45°	4707	4215	3893
50°	4566	3988	3621
55°	4405	3769	3329
60°	4240	3501	3015
65°	4047	3195	2653
70°	3826	2808	2290
75°	3517	2366	1907
80°	3103	1860	1600
85°	2611	1517	1421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.8	4.0
10°-20°	86.2	11.1
20°-30°	124.9	16.1
30°-40°	142.3	18.4
40°-50°	138.7	17.9
50°-60°	116.8	15.1
60°-70°	81.8	10.6
70°-80°	42.0	5.4
80°-90°	10.5	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°	241.9	31.3
0°-40°	384.3	49.6
0°-60°	639.8	82.7
0°-90°	774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	328	328	328	328	328	
5°	327	326	323	326	325	31
15°	311	310	304	304	302	88
25°	282	278	269	266	263	130
35°	243	237	226	219	215	152
45°	199	192	178	168	164	153
55°	151	143	129	118	114	135
65°	102	94	81	71	67	101
75°	54	47	37	31	30	58
85°	14	9	8	8	7	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	327.6	327.6	327.6	327.6	327.6
2.5°	328.4	327.6	325.1	327.6	327.3
5°	327.1	326.1	323.4	325.8	325.3
7.5°	324.6	323.6	320.4	322.4	321.9
10°	320.9	320.2	316.7	317.5	316.7
12.5°	316.7	315.7	310.7	311.2	310.0
15°	311.0	309.5	304.3	304.1	301.9
17.5°	305.1	302.9	296.6	295.4	293.7
20°	297.9	295.4	287.5	286.3	284.1
22.5°	290.0	287.5	279.2	276.4	274.6
25°	282.0	278.3	269.2	266.0	263.3
27.5°	273.2	268.7	259.0	254.9	252.2
30°	263.3	258.6	248.2	242.5	240.3
32.5°	253.6	247.9	237.3	230.9	227.9
35°	243.0	237.1	225.9	218.7	215.3
37.5°	232.8	225.6	214.3	205.9	202.4
40°	222.0	214.5	202.6	193.2	190.3
42.5°	210.5	202.9	190.5	181.6	176.9
45°	198.9	191.8	178.1	168.3	164.5
47.5°	186.8	179.4	165.7	155.6	151.4
50°	175.4	167.3	153.2	142.8	139.1
52.5°	163.0	154.7	141.5	130.1	126.4
55°	151.0	143.0	129.2	118.0	114.1
57.5°	138.6	130.1	116.8	105.9	102.4
60°	126.7	118.0	104.6	93.8	90.1
62.5°	114.1	105.9	92.3	82.4	78.7
65°	102.2	93.8	80.7	70.7	67.0
67.5°	90.3	81.9	69.3	59.9	57.0
70°	78.2	69.8	57.4	49.7	46.8
72.5°	66.3	58.2	46.8	39.8	38.1
75°	54.4	47.0	36.6	31.2	29.5
77.5°	42.3	36.4	27.7	23.5	22.0
80°	32.2	26.3	19.3	17.1	16.6
82.5°	22.3	17.1	12.9	12.1	11.9
85°	13.6	9.1	7.9	7.7	7.4
87.5°	5.7	3.9	3.7	3.7	3.4
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)