

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: P534478

Luminaire Tested: **S920DIP-W140-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29793)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S920DIP-W140-XX4XX-UDD-W-SC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANCULAR HOUSING WITH SOLID UPLIGHT COVER
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

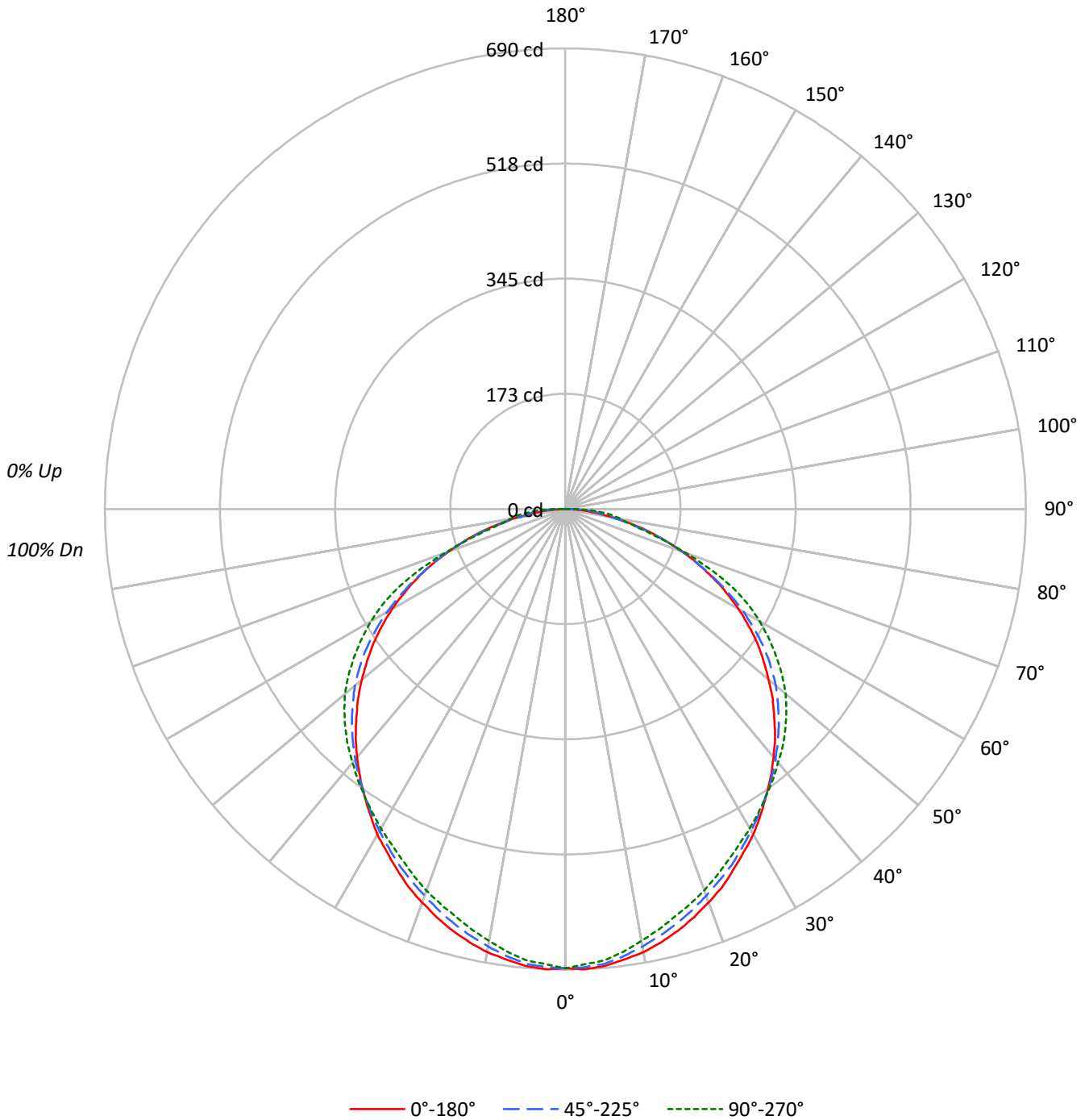
Lumens per Lamp: N/A
Luminaire Lumens: 1945.8 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

Input Watts (W): 18.1
Input Voltage (V): 120
Input Current (Ain): 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: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2733	2733	2733
5°	2721	2639	2602
10°	2683	2518	2453
15°	2634	2403	2319
20°	2579	2292	2205
25°	2523	2196	2094
30°	2473	2098	2007
35°	2414	2010	1930
40°	2364	1929	1861
45°	2309	1846	1800
50°	2252	1757	1727
55°	2190	1639	1621
60°	2101	1483	1493
65°	1970	1287	1304
70°	1779	1066	986
75°	1525	790	673
80°	1138	490	531
85°	647	348	384



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	3.3
10°-20°	181.3	9.3
20°-30°	270.9	13.9
30°-40°	328.2	16.9
40°-50°	349.5	18.0
50°-60°	326.2	16.8
60°-70°	250.5	12.9
70°-80°	132.7	6.8
80°-90°	42.1	2.2
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°	516.7	26.6
0°-40°	844.8	43.4
0°-60°	1520.5	78.1
0°-90°	1945.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1945.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	687	683	684	681	678	65
15°	654	648	643	637	633	184
25°	596	591	589	581	579	275
35°	525	524	524	524	525	329
45°	443	444	452	462	466	342
55°	351	353	364	378	386	313
65°	244	244	248	269	274	241
75°	128	125	124	120	118	135
85°	27	28	40	49	52	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	688.1	688.1	688.1	688.1	688.1
2.5°	690.2	685.9	687.0	685.9	682.7
5°	687.0	682.7	683.8	680.6	678.5
7.5°	680.6	676.3	675.3	671.0	668.9
10°	674.2	667.8	665.7	660.3	657.1
12.5°	664.6	659.3	655.0	648.6	645.4
15°	653.9	647.5	643.3	636.9	632.6
17.5°	641.1	634.7	630.5	624.1	620.9
20°	627.3	620.9	616.6	609.1	608.1
22.5°	613.4	607.0	602.7	595.3	594.2
25°	596.3	591.0	588.9	581.4	579.3
27.5°	579.3	575.0	572.9	567.5	565.4
30°	563.3	559.0	556.8	552.6	552.6
32.5°	544.0	541.9	540.8	537.6	538.7
35°	524.8	523.8	523.8	523.8	524.8
37.5°	505.6	504.6	507.8	508.8	511.0
40°	485.4	484.3	489.6	492.8	496.0
42.5°	465.1	465.1	471.5	477.9	482.2
45°	442.7	443.8	452.3	461.9	466.2
47.5°	421.4	422.4	432.0	443.8	449.1
50°	397.9	400.0	411.8	423.5	431.0
52.5°	374.4	376.6	388.3	402.2	409.6
55°	351.0	353.1	363.8	377.6	386.2
57.5°	325.4	327.5	336.0	351.0	361.6
60°	299.8	301.9	308.3	325.4	336.0
62.5°	272.0	273.1	277.4	299.8	308.3
65°	244.3	244.3	247.5	268.8	274.2
67.5°	215.5	214.4	215.5	232.6	233.6
70°	185.6	184.5	186.7	193.1	191.0
72.5°	156.8	154.7	156.8	152.5	151.5
75°	128.0	124.8	123.7	119.5	118.4
77.5°	99.2	98.1	93.9	91.7	94.9
80°	71.5	73.6	67.2	77.9	83.2
82.5°	48.0	48.0	53.3	65.1	70.4
85°	26.7	27.7	40.5	49.1	52.3
87.5°	8.5	16.0	23.5	28.8	30.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)