

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: P534484

Luminaire Tested: **S920DIP-W235-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534484
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-W235-XX4XX-UDD-W-SC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANCULAR HOUSING WITH SOLID UPLIGHT COVER
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

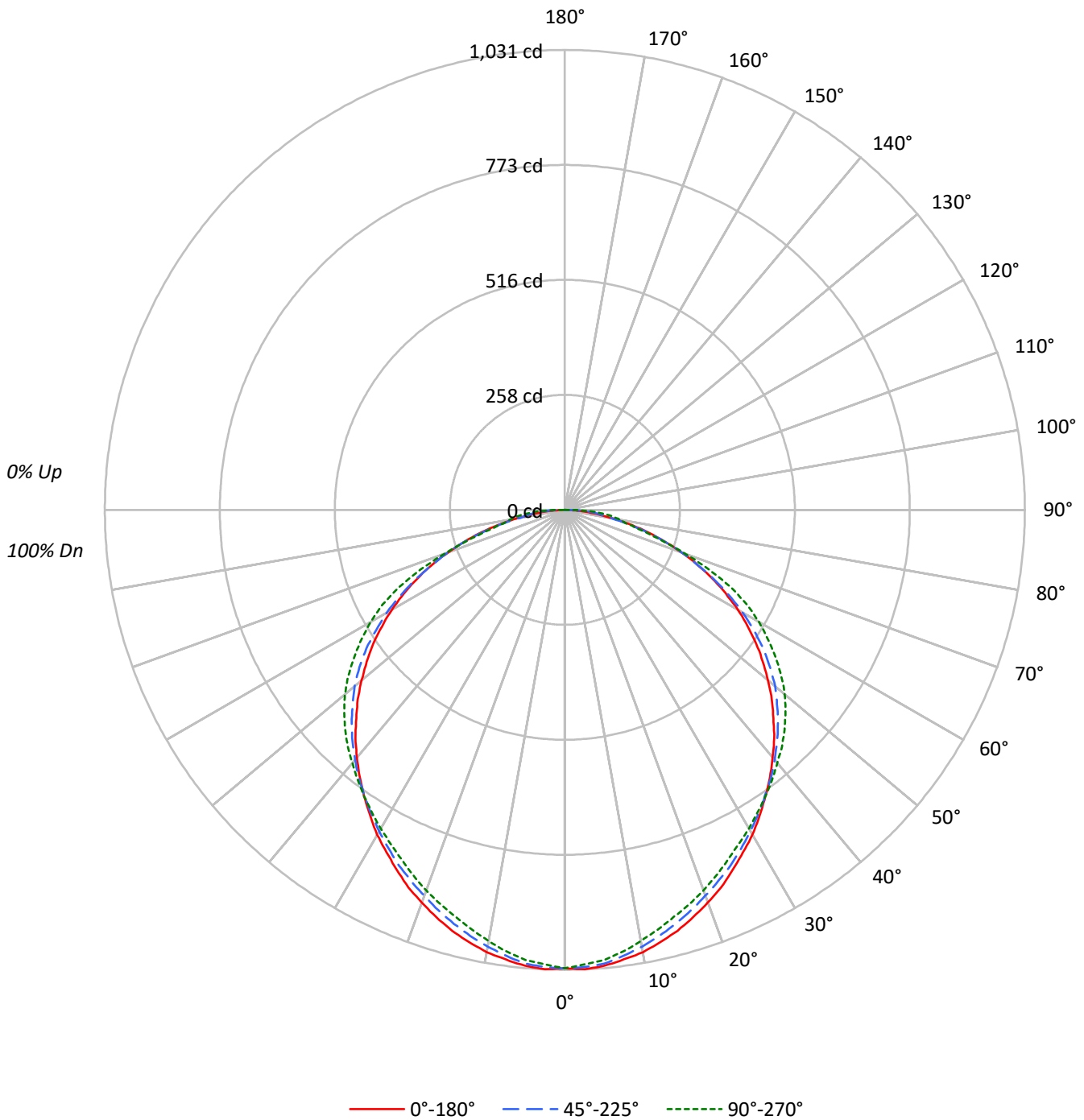
Lumens per Lamp: N/A
Luminaire Lumens: 2905.9 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

Input Watts (W): 27.7
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°	4082	4082	4082
5°	4063	3942	3885
10°	4007	3760	3664
15°	3935	3589	3462
20°	3852	3423	3293
25°	3768	3279	3128
30°	3694	3133	2997
35°	3606	3002	2882
40°	3530	2881	2780
45°	3448	2757	2688
50°	3363	2623	2578
55°	3269	2447	2420
60°	3138	2214	2229
65°	2942	1922	1947
70°	2657	1592	1472
75°	2279	1180	1005
80°	1698	733	794
85°	964	520	574



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	3.3
10°-20°	270.7	9.3
20°-30°	404.5	13.9
30°-40°	490.1	16.9
40°-50°	522.0	18.0
50°-60°	487.1	16.8
60°-70°	374.1	12.9
70°-80°	198.3	6.8
80°-90°	62.8	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°	771.6	26.6
0°-40°	1261.7	43.4
0°-60°	2270.7	78.1
0°-90°	2905.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2905.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1026	1020	1021	1016	1013	97
15°	977	967	961	951	945	275
25°	891	883	879	868	865	411
35°	784	782	782	782	784	491
45°	661	663	676	690	696	511
55°	524	527	543	564	577	468
65°	365	365	370	402	409	360
75°	191	186	185	178	177	202
85°	40	41	60	73	78	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.6	1027.6	1027.6	1027.6	1027.6
2.5°	1030.8	1024.4	1026.0	1024.4	1019.6
5°	1026.0	1019.6	1021.2	1016.4	1013.2
7.5°	1016.4	1010.0	1008.5	1002.1	998.9
10°	1006.9	997.3	994.1	986.1	981.4
12.5°	992.5	984.6	978.2	968.6	963.8
15°	976.6	967.0	960.7	951.1	944.7
17.5°	957.5	947.9	941.5	932.0	927.2
20°	936.8	927.2	920.8	909.7	908.1
22.5°	916.0	906.5	900.1	889.0	887.4
25°	890.6	882.6	879.4	868.3	865.1
27.5°	865.1	858.7	855.5	847.5	844.4
30°	841.2	834.8	831.6	825.2	825.2
32.5°	812.5	809.3	807.7	802.9	804.5
35°	783.8	782.2	782.2	782.2	783.8
37.5°	755.1	753.5	758.3	759.9	763.1
40°	724.9	723.3	731.2	736.0	740.8
42.5°	694.6	694.6	704.2	713.7	720.1
45°	661.1	662.7	675.5	689.8	696.2
47.5°	629.3	630.9	645.2	662.7	670.7
50°	594.2	597.4	614.9	632.5	643.6
52.5°	559.2	562.4	579.9	600.6	611.8
55°	524.1	527.3	543.3	564.0	576.7
57.5°	485.9	489.1	501.8	524.1	540.1
60°	447.7	450.9	460.4	485.9	501.8
62.5°	406.2	407.8	414.2	447.7	460.4
65°	364.8	364.8	369.6	401.5	409.4
67.5°	321.8	320.2	321.8	347.3	348.9
70°	277.2	275.6	278.8	288.4	285.2
72.5°	234.2	231.0	234.2	227.8	226.2
75°	191.2	186.4	184.8	178.4	176.8
77.5°	148.2	146.6	140.2	137.0	141.8
80°	106.7	109.9	100.4	116.3	124.3
82.5°	71.7	71.7	79.7	97.2	105.1
85°	39.8	41.4	60.5	73.3	78.1
87.5°	12.7	23.9	35.0	43.0	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)