

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: P534483

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

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534483
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29792)
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-PC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANCULAR HOUSING WITH PERFORATED UPLIGHT COVER
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

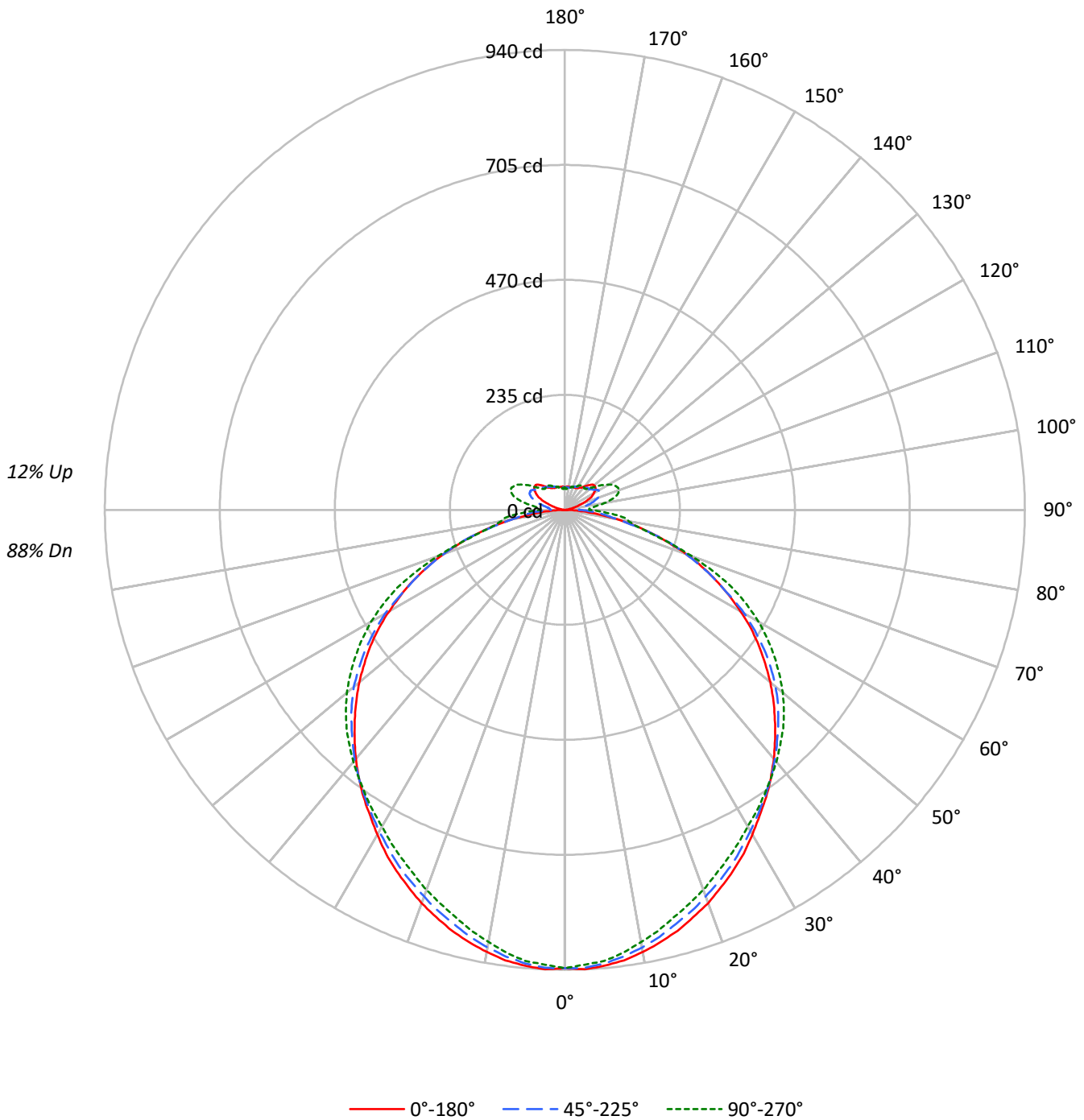
Lumens per Lamp: N/A
Luminaire Lumens: 3063.7 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	106	101	96	92	102	97	93	90	91	88	85	85	82	80	79	77	75	73
2	96	87	81	75	92	85	78	73	79	74	69	74	70	66	69	66	63	60
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50
4	80	68	59	52	76	66	57	51	61	55	49	58	52	47	54	49	45	43
5	73	60	51	45	70	58	50	44	55	48	42	52	46	41	49	43	39	37
6	67	54	45	39	65	53	44	38	50	42	37	47	40	36	44	39	34	32
7	62	49	40	34	60	48	39	34	45	38	33	42	36	31	40	35	30	28
8	58	45	36	30	56	43	35	30	41	34	29	39	33	28	37	31	27	25
9	54	41	33	27	52	40	32	27	38	31	26	36	30	25	34	29	25	23
10	51	38	30	25	49	37	29	24	35	28	24	33	27	23	31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3721	3721	3721
5°	3704	3591	3549
10°	3651	3435	3349
15°	3588	3273	3159
20°	3517	3127	2998
25°	3444	2993	2845
30°	3365	2857	2714
35°	3298	2739	2613
40°	3235	2630	2523
45°	3166	2516	2435
50°	3101	2399	2330
55°	3021	2239	2193
60°	2903	2038	2031
65°	2749	1773	1796
70°	2520	1501	1414
75°	2183	1159	1005
80°	1673	767	844
85°	925	603	714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	2.9
10°-20°	247.0	8.1
20°-30°	368.9	12.0
30°-40°	446.6	14.6
40°-50°	476.1	15.5
50°-60°	445.7	14.5
60°-70°	346.9	11.3
70°-80°	193.1	6.3
80°-90°	74.6	2.4
90°-100°	36.2	1.2
100°-110°	64.6	2.1
110°-120°	79.4	2.6
120°-130°	68.5	2.2
130°-140°	49.8	1.6
140°-150°	36.2	1.2
150°-160°	24.1	0.8
160°-170°	13.6	0.4
170°-180°	4.4	0.1
0°-30°	703.8	23.0
0°-40°	1150.4	37.6
0°-60°	2072.2	67.6
0°-90°	2686.8	87.7
90°-120°	180.1	5.9
90°-150°	334.7	10.9
90°-180°	377.0	12.3
0°-180°	3063.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	935	929	930	927	926	89
15°	891	881	876	867	862	251
25°	814	808	803	790	787	375
35°	717	715	714	710	710	449
45°	607	607	616	626	631	469
55°	484	484	497	511	522	432
65°	341	339	341	368	378	336
75°	183	178	182	178	177	193
85°	38	45	70	89	97	45
90°	0	14	29	41	49	2
95°	3	18	32	46	57	4
105°	22	35	57	91	108	25
115°	57	57	80	102	115	55
125°	76	72	72	81	86	67
135°	72	65	64	60	60	55
145°	56	56	57	60	60	35
155°	49	49	53	54	53	23
165°	48	48	48	48	48	14
175°	48	46	46	46	43	5
180°	46	46	46	46	46	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	936.8	936.8	936.8	936.8	936.8
2.5°	939.9	933.6	936.8	935.2	930.4
5°	935.2	928.8	930.4	927.2	925.6
7.5°	928.8	920.8	920.8	916.1	912.9
10°	917.6	909.7	908.1	900.1	896.9
12.5°	904.9	896.9	893.7	884.2	881.0
15°	890.6	881.0	876.2	866.7	861.9
17.5°	873.0	865.1	860.3	849.1	844.4
20°	855.5	847.5	841.2	830.0	826.8
22.5°	834.8	826.8	822.1	809.3	806.1
25°	814.1	807.7	802.9	790.2	787.0
27.5°	791.8	785.4	780.6	771.1	767.9
30°	766.3	763.1	758.3	748.8	747.2
32.5°	740.8	739.2	736.0	729.7	729.7
35°	716.9	715.3	713.7	710.5	710.5
37.5°	691.4	689.8	691.4	689.8	691.4
40°	664.3	662.7	667.5	669.1	672.3
42.5°	635.7	635.7	642.0	648.4	651.6
45°	607.0	607.0	616.5	626.1	630.9
47.5°	578.3	578.3	591.1	600.6	607.0
50°	548.0	548.0	562.4	573.5	581.5
52.5°	516.2	516.2	530.5	544.9	552.8
55°	484.3	484.3	497.1	511.4	522.5
57.5°	450.9	450.9	460.4	479.5	490.7
60°	414.2	415.8	423.8	444.5	457.2
62.5°	377.6	377.6	379.2	407.8	419.0
65°	340.9	339.3	340.9	368.0	377.6
67.5°	302.7	299.5	301.1	328.2	328.2
70°	262.9	258.1	262.9	277.2	274.0
72.5°	221.4	216.7	226.2	224.6	221.4
75°	183.2	178.4	181.6	178.4	176.8
77.5°	143.4	140.2	138.6	140.2	145.0
80°	105.1	106.7	105.1	122.7	132.2
82.5°	68.5	71.7	84.4	111.5	122.7
85°	38.2	44.6	70.1	89.2	97.2
87.5°	14.3	28.7	46.2	62.1	70.1
90°	0.0	14.3	28.7	41.4	49.4
92.5°	1.6	14.3	30.3	41.4	49.4
95°	3.2	17.5	31.9	46.2	57.4
97.5°	4.8	20.7	35.0	55.8	68.5
100°	9.6	23.9	41.4	68.5	84.4
102.5°	15.9	28.7	49.4	81.2	97.2
105°	22.3	35.0	57.4	90.8	108.3
107.5°	30.3	39.8	65.3	97.2	114.7
110°	39.8	46.2	71.7	100.4	117.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.8	51.0	76.5	102.0	117.9
115°	57.4	57.4	79.7	102.0	114.7
117.5°	63.7	62.1	79.7	100.4	111.5
120°	68.5	66.9	79.7	97.2	103.6
122.5°	73.3	70.1	76.5	89.2	95.6
125°	76.5	71.7	71.7	81.2	86.0
127.5°	78.1	71.7	68.5	73.3	76.5
130°	78.1	71.7	65.3	65.3	70.1
132.5°	76.5	68.5	65.3	60.5	63.7
135°	71.7	65.3	63.7	60.5	60.5
137.5°	66.9	62.1	62.1	60.5	58.9
140°	62.1	60.5	60.5	60.5	60.5
142.5°	57.4	57.4	58.9	60.5	60.5
145°	55.8	55.8	57.4	60.5	60.5
147.5°	52.6	52.6	55.8	58.9	58.9
150°	51.0	52.6	54.2	57.4	57.4
152.5°	51.0	51.0	52.6	55.8	54.2
155°	49.4	49.4	52.6	54.2	52.6
157.5°	49.4	49.4	51.0	52.6	52.6
160°	49.4	47.8	49.4	51.0	49.4
162.5°	49.4	47.8	49.4	49.4	49.4
165°	47.8	47.8	47.8	47.8	47.8
167.5°	47.8	47.8	46.2	47.8	46.2
170°	47.8	46.2	46.2	46.2	44.6
172.5°	47.8	46.2	46.2	46.2	44.6
175°	47.8	46.2	46.2	46.2	43.0
177.5°	46.2	46.2	46.2	46.2	43.0
180°	46.2	46.2	46.2	46.2	46.2

(END OF REPORT)