

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: P534500

Luminaire Tested: **S920DIP-W430-XX4XX-UDD-W**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29790)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S920DIP-W430-XX4XX-UDD-W
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANCULAR HOUSING
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

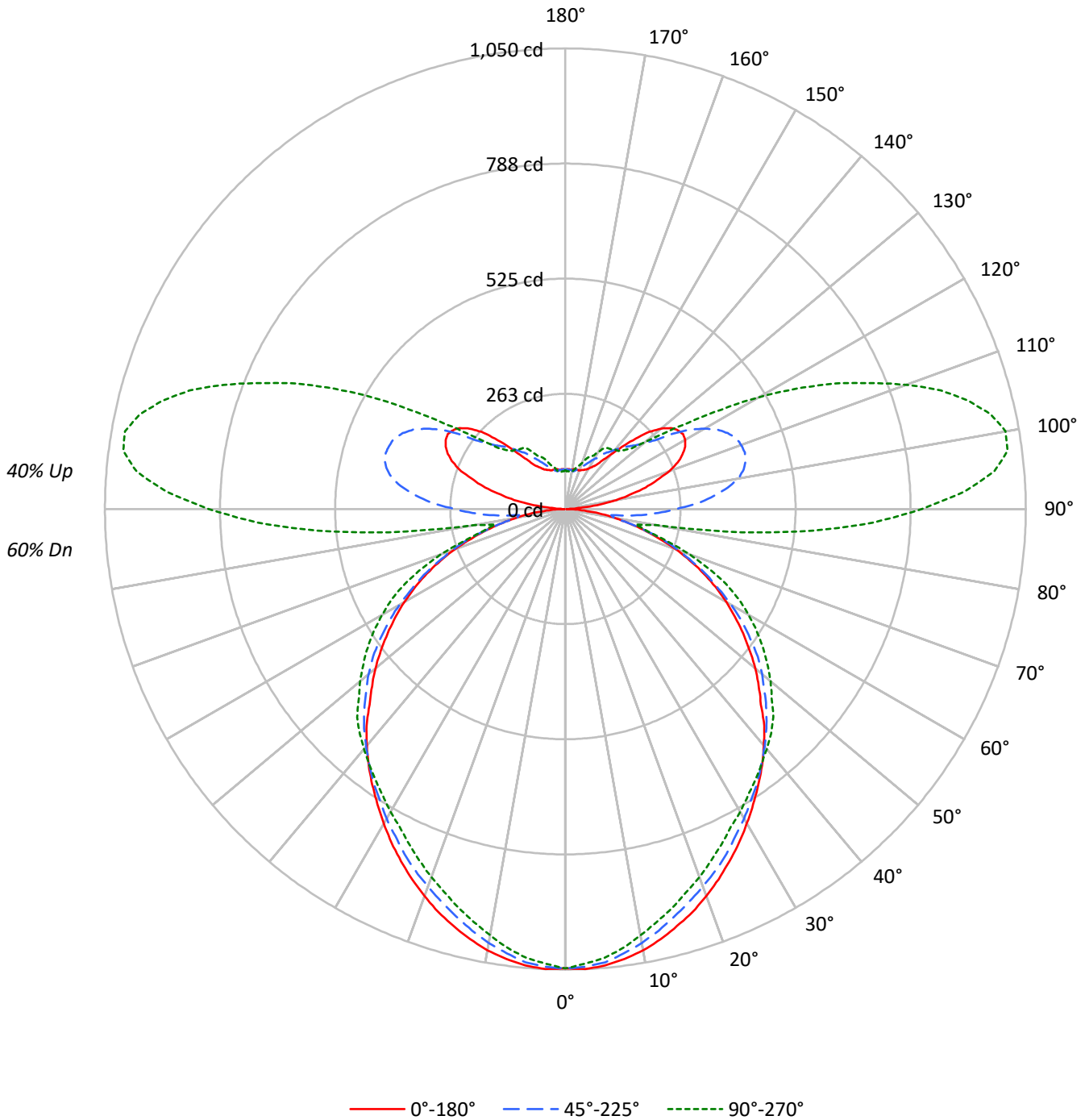
Lumens per Lamp: N/A
Luminaire Lumens: 5089.3 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: General Diffuse

Input Watts (W): 50.7
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60
1	98	93	89	85	91	87	83	79	75	72	70	65	62	60	55	53	52	47
2	89	81	74	68	83	76	70	64	66	61	57	56	53	50	48	45	43	39
3	81	71	63	57	75	66	59	54	58	52	48	50	45	42	42	39	36	32
4	74	63	54	48	69	59	51	45	51	45	40	44	39	36	38	34	31	28
5	68	56	47	41	63	52	45	39	46	39	35	39	35	31	34	30	27	24
6	63	50	41	35	58	47	39	34	41	35	30	36	31	27	31	27	24	21
7	58	45	37	31	54	42	35	29	37	31	27	32	27	24	28	24	21	18
8	54	41	33	27	50	39	31	26	34	28	24	30	25	21	26	22	19	16
9	50	37	30	24	47	35	28	23	31	25	21	27	22	19	24	20	17	15
10	47	34	27	22	44	32	26	21	29	23	19	25	20	17	22	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4160	4160	4160
5°	4138	4004	3939
10°	4067	3799	3684
15°	3966	3592	3450
20°	3860	3406	3240
25°	3748	3237	3047
30°	3635	3071	2897
35°	3530	2925	2775
40°	3429	2785	2680
45°	3290	2647	2591
50°	3199	2498	2447
55°	3086	2319	2309
60°	2971	2100	2141
65°	2809	1851	1921
70°	2564	1556	1550
75°	2195	1208	1091
80°	1767	810	1338
85°	1039	1410	4173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	1.9
10°-20°	271.0	5.3
20°-30°	398.7	7.8
30°-40°	476.3	9.4
40°-50°	500.6	9.8
50°-60°	462.4	9.1
60°-70°	361.7	7.1
70°-80°	205.1	4.0
80°-90°	258.0	5.1
90°-100°	470.5	9.2
100°-110°	524.3	10.3
110°-120°	436.2	8.6
120°-130°	285.6	5.6
130°-140°	158.4	3.1
140°-150°	94.1	1.8
150°-160°	53.1	1.0
160°-170°	26.9	0.5
170°-180°	8.5	0.2
0°-30°	767.4	15.1
0°-40°	1243.7	24.4
0°-60°	2206.8	43.4
0°-90°	3031.6	59.6
90°-120°	1431.1	28.1
90°-150°	1969.2	38.7
90°-180°	2058.0	40.4
0°-180°	5089.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1045	1037	1037	1030	1027	99
15°	984	974	962	946	941	278
25°	886	878	868	850	843	408
35°	767	765	762	755	755	480
45°	631	634	649	664	671	489
55°	495	497	515	538	550	443
65°	348	346	356	394	404	343
75°	184	182	189	192	192	196
85°	43	56	164	424	568	50
90°	2	86	252	616	813	5
95°	40	144	341	760	982	51
105°	189	240	426	770	952	197
115°	295	295	409	575	676	289
125°	313	308	298	331	343	277
135°	227	210	202	182	189	176
145°	121	129	154	169	169	80
155°	98	98	114	126	131	46
165°	93	91	91	96	98	26
175°	91	91	88	88	86	9
180°	88	88	88	88	88	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1047.4	1047.4	1047.4	1047.4	1047.4
2.5°	1049.9	1042.3	1044.9	1042.3	1037.3
5°	1044.9	1037.3	1037.3	1029.7	1027.2
7.5°	1034.8	1024.7	1022.1	1012.0	1009.5
10°	1022.1	1012.0	1004.5	991.9	986.8
12.5°	1004.5	994.4	984.3	971.7	964.1
15°	984.3	974.2	961.6	946.4	941.4
17.5°	964.1	951.5	938.9	923.7	916.1
20°	938.9	926.2	916.1	898.5	893.4
22.5°	913.6	903.5	893.4	873.2	868.2
25°	885.9	878.3	868.2	850.5	842.9
27.5°	858.1	850.5	840.4	825.3	817.7
30°	827.8	822.8	815.2	800.0	797.5
32.5°	797.5	795.0	787.4	777.3	774.8
35°	767.2	764.7	762.2	754.6	754.6
37.5°	736.9	734.4	734.4	731.9	734.4
40°	704.1	701.6	706.7	709.2	714.2
42.5°	671.3	671.3	678.9	689.0	694.0
45°	630.9	633.5	648.6	663.8	671.3
47.5°	598.1	600.7	615.8	633.5	638.5
50°	565.3	565.3	585.5	600.7	610.8
52.5°	530.0	532.5	552.7	570.4	580.5
55°	494.7	497.2	514.9	537.6	550.2
57.5°	459.3	459.3	477.0	502.2	517.4
60°	424.0	424.0	436.6	464.4	482.0
62.5°	386.1	386.1	393.7	431.6	446.7
65°	348.3	345.8	355.9	393.7	403.8
67.5°	307.9	305.4	313.0	350.8	353.3
70°	267.5	262.5	272.6	300.3	300.3
72.5°	224.6	222.1	234.7	244.8	239.8
75°	184.2	181.7	189.3	191.8	191.8
77.5°	146.4	146.4	146.4	151.4	164.0
80°	111.0	113.6	111.0	148.9	209.5
82.5°	78.2	78.2	106.0	292.8	406.3
85°	42.9	55.5	164.0	424.0	567.9
87.5°	17.7	63.1	212.0	527.5	704.1
90°	2.5	85.8	252.4	615.8	812.7
92.5°	15.1	118.6	302.9	701.6	911.1
95°	40.4	143.9	340.7	759.7	981.8
97.5°	80.8	171.6	373.5	800.0	1017.1
100°	118.6	196.9	401.3	805.1	1019.6
102.5°	151.4	219.6	416.4	795.0	994.4
105°	189.3	239.8	426.5	769.8	951.5
107.5°	219.6	257.4	429.0	729.4	898.5
110°	252.4	267.5	426.5	681.4	827.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	277.6	280.1	421.5	625.9	749.6
115°	295.3	295.3	408.9	575.4	676.4
117.5°	307.9	310.4	391.2	524.9	593.1
120°	315.5	318.0	366.0	466.9	509.8
122.5°	318.0	315.5	335.7	398.8	421.5
125°	313.0	307.9	297.8	330.6	343.2
127.5°	302.9	290.2	257.4	272.6	282.7
130°	285.2	265.0	232.2	224.6	237.2
132.5°	260.0	237.2	214.5	196.9	204.4
135°	227.1	209.5	201.9	181.7	189.3
137.5°	191.8	184.2	189.3	181.7	179.2
140°	161.5	164.0	176.7	176.7	176.7
142.5°	138.8	146.4	164.0	174.1	171.6
145°	121.1	128.7	154.0	169.1	169.1
147.5°	113.6	116.1	138.8	154.0	164.0
150°	106.0	108.5	131.2	143.9	148.9
152.5°	101.0	103.5	121.1	136.3	136.3
155°	98.4	98.4	113.6	126.2	131.2
157.5°	95.9	95.9	106.0	118.6	123.7
160°	93.4	93.4	101.0	113.6	111.0
162.5°	93.4	90.9	95.9	103.5	103.5
165°	93.4	90.9	90.9	95.9	98.4
167.5°	93.4	90.9	88.3	90.9	90.9
170°	90.9	90.9	88.3	88.3	85.8
172.5°	90.9	90.9	90.9	88.3	85.8
175°	90.9	90.9	88.3	88.3	85.8
177.5°	90.9	90.9	90.9	88.3	85.8
180°	88.3	88.3	88.3	88.3	88.3

(END OF REPORT)