

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: P534493

Luminaire Tested: **S920DIP-W335-XX4XX-UDD-W-SC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534493
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-W335-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

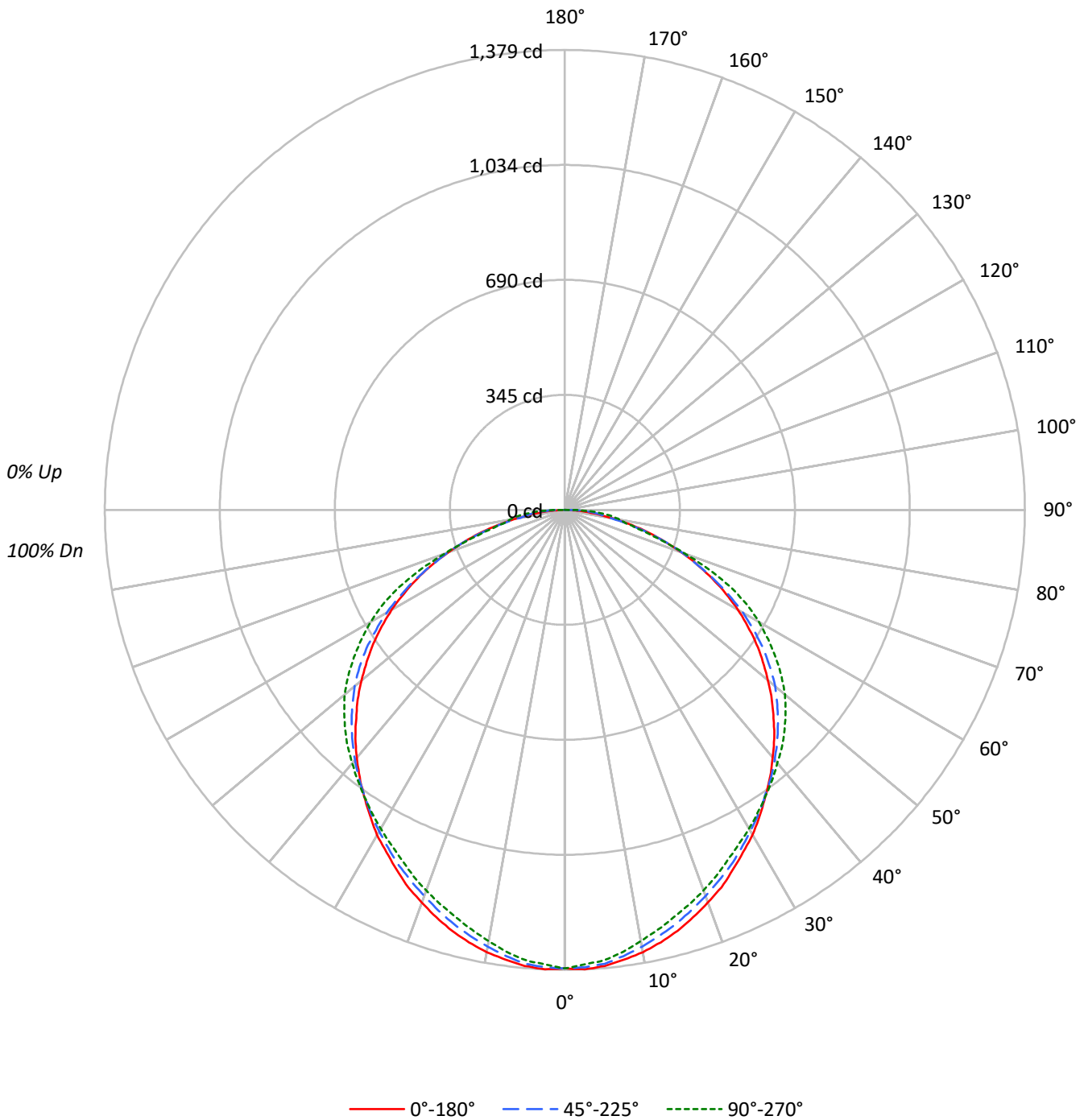
Lumens per Lamp: N/A
Luminaire Lumens: 3888.1 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.2 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Direct

Input Watts (W): 38.5
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83				83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69				69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58				58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49				49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42				42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37				37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33				33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29				29
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26				26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24				24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5461	5461	5461
5°	5436	5274	5198
10°	5361	5031	4902
15°	5264	4801	4633
20°	5153	4580	4406
25°	5041	4387	4184
30°	4942	4192	4011
35°	4825	4016	3856
40°	4723	3856	3719
45°	4613	3689	3596
50°	4500	3510	3450
55°	4375	3274	3238
60°	4198	2962	2983
65°	3937	2572	2606
70°	3555	2130	1969
75°	3049	1578	1346
80°	2273	980	1062
85°	1291	696	767



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	3.3
10°-20°	362.2	9.3
20°-30°	541.2	13.9
30°-40°	655.8	16.9
40°-50°	698.4	18.0
50°-60°	651.7	16.8
60°-70°	500.5	12.9
70°-80°	265.3	6.8
80°-90°	84.1	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°	1032.4	26.6
0°-40°	1688.1	43.4
0°-60°	3038.2	78.1
0°-90°	3888.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3888.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1375	1375	1375	1375	1375	
5°	1373	1364	1366	1360	1356	130
15°	1307	1294	1285	1272	1264	368
25°	1192	1181	1177	1162	1157	549
35°	1049	1047	1047	1047	1049	657
45°	885	887	904	923	932	683
55°	701	706	727	755	772	626
65°	488	488	494	537	548	482
75°	256	249	247	239	237	270
85°	53	55	81	98	104	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.9	1374.9	1374.9	1374.9	1374.9
2.5°	1379.1	1370.6	1372.7	1370.6	1364.2
5°	1372.7	1364.2	1366.3	1359.9	1355.7
7.5°	1359.9	1351.4	1349.3	1340.8	1336.5
10°	1347.2	1334.4	1330.1	1319.4	1313.0
12.5°	1328.0	1317.3	1308.8	1296.0	1289.6
15°	1306.7	1293.9	1285.3	1272.5	1264.0
17.5°	1281.1	1268.3	1259.8	1247.0	1240.6
20°	1253.4	1240.6	1232.0	1217.1	1215.0
22.5°	1225.7	1212.9	1204.3	1189.4	1187.3
25°	1191.5	1180.9	1176.6	1161.7	1157.4
27.5°	1157.4	1148.9	1144.7	1134.0	1129.7
30°	1125.5	1116.9	1112.7	1104.2	1104.2
32.5°	1087.1	1082.8	1080.7	1074.3	1076.4
35°	1048.7	1046.6	1046.6	1046.6	1048.7
37.5°	1010.4	1008.2	1014.6	1016.8	1021.0
40°	969.9	967.7	978.4	984.8	991.2
42.5°	929.4	929.4	942.2	954.9	963.5
45°	884.6	886.7	903.8	923.0	931.5
47.5°	842.0	844.1	863.3	886.7	897.4
50°	795.1	799.3	822.8	846.2	861.2
52.5°	748.2	752.4	775.9	803.6	818.5
55°	701.3	705.6	726.9	754.6	771.6
57.5°	650.1	654.4	671.4	701.3	722.6
60°	599.0	603.2	616.0	650.1	671.4
62.5°	543.6	545.7	554.2	599.0	616.0
65°	488.1	488.1	494.5	537.2	547.8
67.5°	430.6	428.4	430.6	464.7	466.8
70°	370.9	368.8	373.0	385.8	381.6
72.5°	313.3	309.1	313.3	304.8	302.7
75°	255.8	249.4	247.3	238.7	236.6
77.5°	198.2	196.1	187.6	183.3	189.7
80°	142.8	147.1	134.3	155.6	166.3
82.5°	95.9	95.9	106.6	130.0	140.7
85°	53.3	55.4	81.0	98.1	104.4
87.5°	17.1	32.0	46.9	57.6	61.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)