

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: P534512

Luminaire Tested: **S920DIP-W535-XX4XX-UDD-W**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534512
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-W535-XX4XX-UDD-W
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANCULAR HOUSING
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

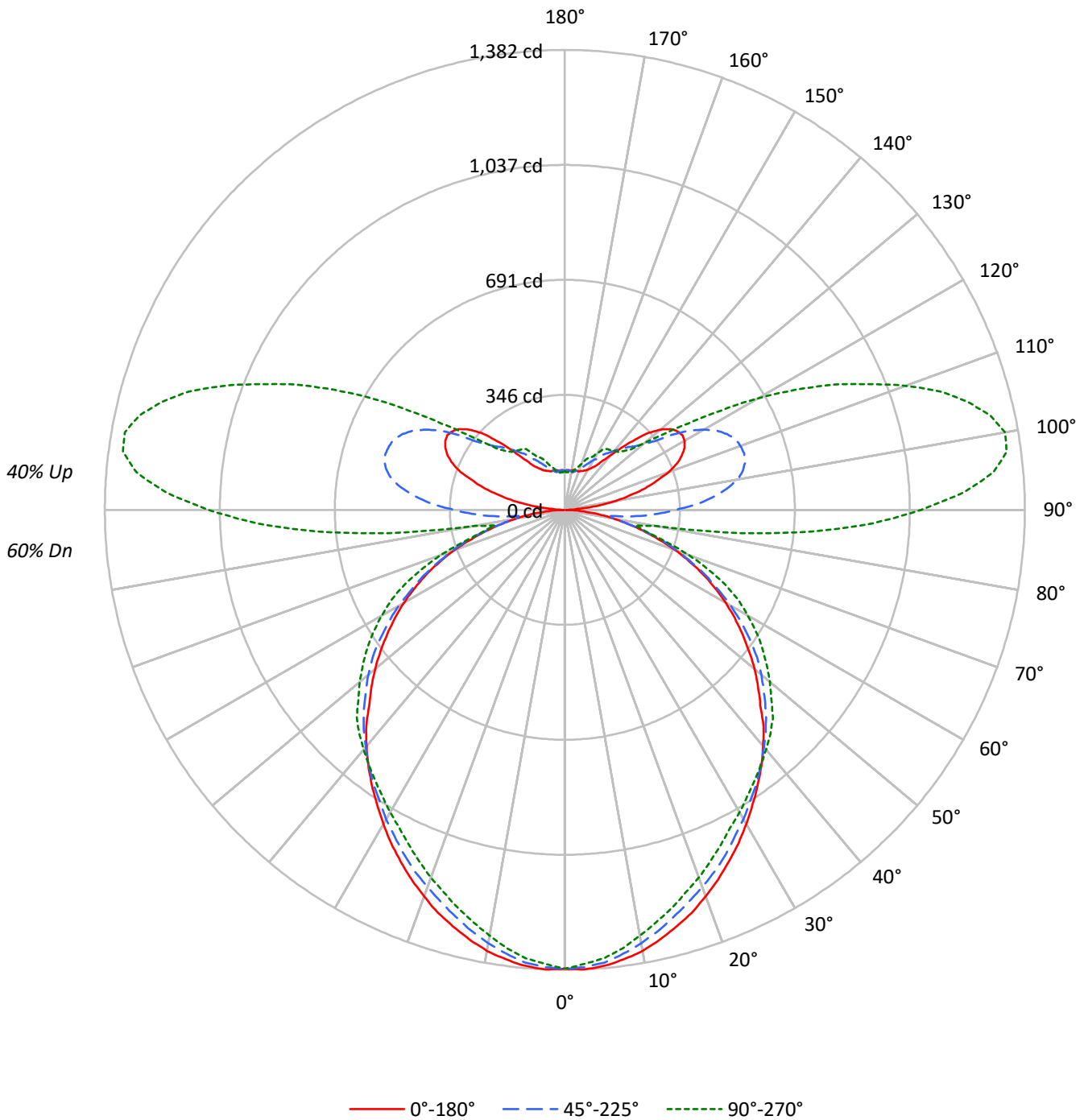
Lumens per Lamp: N/A
Luminaire Lumens: 6700.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: General Diffuse

Input Watts (W): 68
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°	5476	5476	5476
5°	5448	5271	5185
10°	5354	5002	4850
15°	5221	4729	4542
20°	5082	4484	4265
25°	4934	4261	4012
30°	4785	4044	3813
35°	4647	3851	3653
40°	4514	3666	3528
45°	4332	3485	3412
50°	4212	3288	3221
55°	4062	3053	3040
60°	3912	2764	2819
65°	3698	2437	2528
70°	3375	2049	2040
75°	2890	1591	1436
80°	2327	1067	1762
85°	1369	1857	5494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.7	1.9
10°-20°	356.8	5.3
20°-30°	524.9	7.8
30°-40°	627.0	9.4
40°-50°	659.1	9.8
50°-60°	608.8	9.1
60°-70°	476.2	7.1
70°-80°	270.0	4.0
80°-90°	339.7	5.1
90°-100°	619.4	9.2
100°-110°	690.3	10.3
110°-120°	574.3	8.6
120°-130°	376.0	5.6
130°-140°	208.6	3.1
140°-150°	123.9	1.8
150°-160°	69.9	1.0
160°-170°	35.4	0.5
170°-180°	11.2	0.2
0°-30°	1010.3	15.1
0°-40°	1637.3	24.4
0°-60°	2905.2	43.4
0°-90°	3991.1	59.6
90°-120°	1884.0	28.1
90°-150°	2592.4	38.7
90°-180°	2709.0	40.4
0°-180°	6700.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1379	1379	1379	1379	1379	
5°	1376	1366	1366	1356	1352	130
15°	1296	1282	1266	1246	1239	365
25°	1166	1156	1143	1120	1110	537
35°	1010	1007	1003	993	993	632
45°	831	834	854	874	884	644
55°	651	654	678	708	724	583
65°	458	455	468	518	532	452
75°	242	239	249	252	252	258
85°	56	73	216	558	748	66
90°	3	113	332	811	1070	7
95°	53	189	448	1000	1292	67
105°	249	316	562	1013	1253	259
115°	389	389	538	758	890	380
125°	412	405	392	435	452	365
135°	299	276	266	239	249	232
145°	160	169	203	223	223	106
155°	130	130	150	166	173	60
165°	123	120	120	126	130	35
175°	120	120	116	116	113	11
180°	116	116	116	116	116	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.8	1378.8	1378.8	1378.8	1378.8
2.5°	1382.2	1372.2	1375.5	1372.2	1365.6
5°	1375.5	1365.6	1365.6	1355.6	1352.3
7.5°	1362.2	1348.9	1345.6	1332.3	1329.0
10°	1345.6	1332.3	1322.4	1305.8	1299.1
12.5°	1322.4	1309.1	1295.8	1279.2	1269.2
15°	1295.8	1282.5	1265.9	1245.9	1239.3
17.5°	1269.2	1252.6	1236.0	1216.0	1206.1
20°	1236.0	1219.4	1206.1	1182.8	1176.2
22.5°	1202.8	1189.5	1176.2	1149.6	1142.9
25°	1166.2	1156.2	1142.9	1119.7	1109.7
27.5°	1129.7	1119.7	1106.4	1086.5	1076.5
30°	1089.8	1083.1	1073.2	1053.2	1049.9
32.5°	1049.9	1046.6	1036.6	1023.3	1020.0
35°	1010.0	1006.7	1003.4	993.4	993.4
37.5°	970.2	966.9	966.9	963.5	966.9
40°	927.0	923.7	930.3	933.6	940.3
42.5°	883.8	883.8	893.8	907.0	913.7
45°	830.6	834.0	853.9	873.8	883.8
47.5°	787.4	790.8	810.7	834.0	840.6
50°	744.2	744.2	770.8	790.8	804.1
52.5°	697.7	701.1	727.6	750.9	764.2
55°	651.2	654.5	677.8	707.7	724.3
57.5°	604.7	604.7	628.0	661.2	681.1
60°	558.2	558.2	574.8	611.3	634.6
62.5°	508.3	508.3	518.3	568.2	588.1
65°	458.5	455.2	468.5	518.3	531.6
67.5°	405.3	402.0	412.0	461.8	465.2
70°	352.2	345.5	358.8	395.4	395.4
72.5°	295.7	292.4	309.0	322.3	315.6
75°	242.5	239.2	249.2	252.5	252.5
77.5°	192.7	192.7	192.7	199.4	216.0
80°	146.2	149.5	146.2	196.0	275.8
82.5°	103.0	103.0	139.5	385.4	534.9
85°	56.5	73.1	216.0	558.2	747.6
87.5°	23.3	83.1	279.1	694.4	927.0
90°	3.3	113.0	332.3	810.7	1069.9
92.5°	19.9	156.2	398.7	923.7	1199.4
95°	53.2	189.4	448.5	1000.1	1292.5
97.5°	106.3	225.9	491.7	1053.2	1339.0
100°	156.2	259.2	528.3	1059.9	1342.3
102.5°	199.4	289.1	548.2	1046.6	1309.1
105°	249.2	315.6	561.5	1013.4	1252.6
107.5°	289.1	338.9	564.8	960.2	1182.8
110°	332.3	352.2	561.5	897.1	1089.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.5	368.8	554.9	824.0	986.8
115°	388.7	388.7	538.2	757.5	890.4
117.5°	405.3	408.7	515.0	691.1	780.8
120°	415.3	418.6	481.8	614.7	671.1
122.5°	418.6	415.3	441.9	525.0	554.9
125°	412.0	405.3	392.1	435.3	451.9
127.5°	398.7	382.1	338.9	358.8	372.1
130°	375.4	348.9	305.7	295.7	312.3
132.5°	342.2	312.3	282.4	259.2	269.1
135°	299.0	275.8	265.8	239.2	249.2
137.5°	252.5	242.5	249.2	239.2	235.9
140°	212.6	216.0	232.6	232.6	232.6
142.5°	182.7	192.7	216.0	229.3	225.9
145°	159.5	169.4	202.7	222.6	222.6
147.5°	149.5	152.8	182.7	202.7	216.0
150°	139.5	142.9	172.8	189.4	196.0
152.5°	132.9	136.2	159.5	179.4	179.4
155°	129.6	129.6	149.5	166.1	172.8
157.5°	126.3	126.3	139.5	156.2	162.8
160°	122.9	122.9	132.9	149.5	146.2
162.5°	122.9	119.6	126.3	136.2	136.2
165°	122.9	119.6	119.6	126.3	129.6
167.5°	122.9	119.6	116.3	119.6	119.6
170°	119.6	119.6	116.3	116.3	113.0
172.5°	119.6	119.6	119.6	116.3	113.0
175°	119.6	119.6	116.3	116.3	113.0
177.5°	119.6	119.6	119.6	116.3	113.0
180°	116.3	116.3	116.3	116.3	116.3

(END OF REPORT)