

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: P534551

Luminaire Tested: **S921DIP-W440-XX4XX-UDD-W**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35510-R2)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S921DIP-W440-XX4XX-UDD-W
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

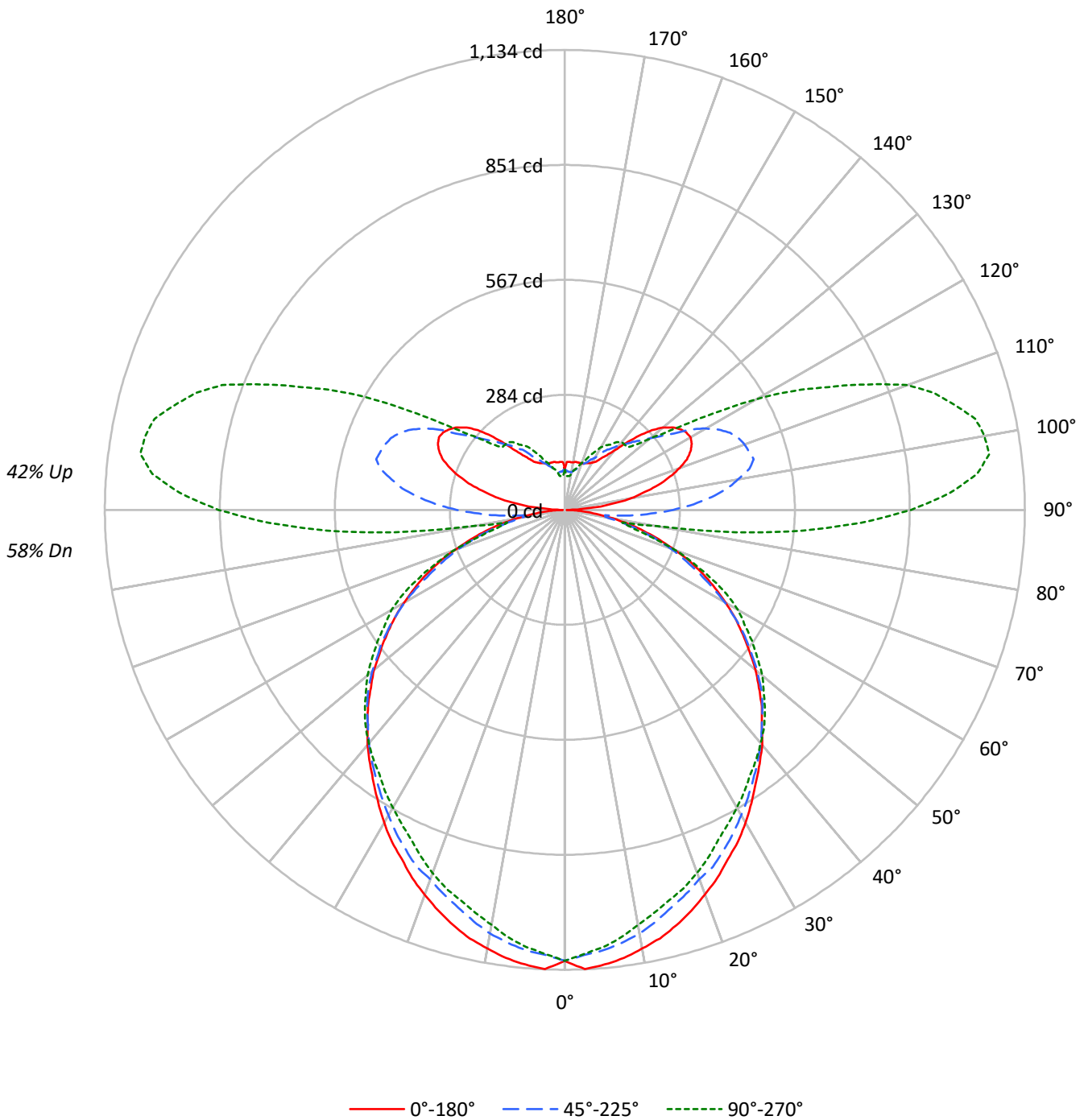
Lumens per Lamp: N/A
Luminaire Lumens: 5473.1 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.14 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: General Diffuse

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	88	88	88	75	75	75	64	64	64	58
1	98	93	89	85	91	87	83	79	75	72	69	64	62	60	54	52	51	46
2	89	81	74	69	83	76	70	65	65	61	57	56	52	49	47	45	42	38
3	81	71	63	57	75	66	59	54	57	52	47	49	45	42	42	39	36	32
4	74	63	54	48	69	59	51	45	51	45	40	44	39	35	37	34	31	27
5	68	56	47	41	63	52	45	39	46	39	35	39	34	31	33	30	27	24
6	63	50	42	35	58	47	39	34	41	35	30	35	31	27	30	26	23	21
7	58	45	37	31	54	42	35	30	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	25	21	19	16
9	50	37	30	24	47	35	28	23	31	25	21	27	22	19	23	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°	4416	4416	4416
5°	4457	4209	4150
10°	4371	4012	3880
15°	4274	3791	3651
20°	4151	3603	3456
25°	4021	3453	3241
30°	3913	3276	3080
35°	3778	3110	2930
40°	3684	2960	2819
45°	3580	2813	2692
50°	3474	2642	2546
55°	3342	2438	2362
60°	3208	2188	2189
65°	3040	1877	1883
70°	2761	1568	1501
75°	2406	1186	980
80°	1886	747	1445
85°	1044	1388	4333



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.9	1.9
10°-20°	289.1	5.3
20°-30°	427.3	7.8
30°-40°	509.6	9.3
40°-50°	534.2	9.8
50°-60°	488.8	8.9
60°-70°	372.8	6.8
70°-80°	203.8	3.7
80°-90°	266.8	4.9
90°-100°	502.7	9.2
100°-110°	574.4	10.5
110°-120°	481.6	8.8
120°-130°	316.7	5.8
130°-140°	185.4	3.4
140°-150°	112.5	2.1
150°-160°	62.8	1.1
160°-170°	31.2	0.6
170°-180°	9.5	0.2
0°-30°	820.4	15.0
0°-40°	1330.0	24.3
0°-60°	2353.0	43.0
0°-90°	3196.4	58.4
90°-120°	1558.6	28.5
90°-150°	2173.3	39.7
90°-180°	2277.0	41.6
0°-180°	5473.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1125	1117	1090	1088	1082	107
15°	1061	1050	1015	1002	996	299
25°	950	948	926	910	896	439
35°	821	829	810	802	797	515
45°	686	695	689	697	697	529
55°	536	544	541	555	563	479
65°	377	374	361	390	396	371
75°	202	191	186	178	172	213
85°	43	56	162	436	590	52
90°	5	97	266	657	854	9
95°	81	167	364	794	1020	83
105°	240	283	482	818	996	250
115°	342	350	450	622	716	335
125°	347	347	328	353	372	308
135°	258	242	237	224	218	200
145°	154	159	180	196	196	99
155°	126	124	129	143	148	59
165°	121	113	102	105	105	34
175°	118	113	94	86	84	11
180°	100	100	100	100	100	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.9	1111.9	1111.9	1111.9	1111.9
2.5°	1133.5	1125.4	1098.5	1098.5	1095.8
5°	1125.4	1117.3	1090.4	1087.7	1082.3
7.5°	1114.6	1103.8	1076.9	1071.5	1063.5
10°	1098.5	1090.4	1060.8	1050.0	1039.2
12.5°	1082.3	1071.5	1039.2	1028.5	1017.7
15°	1060.8	1050.0	1015.0	1001.5	996.1
17.5°	1036.5	1025.8	993.5	988.1	977.3
20°	1009.6	998.8	969.2	963.8	953.1
22.5°	982.7	974.6	953.1	936.9	926.1
25°	950.4	947.7	926.1	910.0	896.5
27.5°	923.5	918.1	899.2	883.1	872.3
30°	891.1	888.5	869.6	856.1	848.1
32.5°	856.1	858.8	840.0	831.9	823.8
35°	821.2	829.2	810.4	802.3	796.9
37.5°	788.8	799.6	780.8	778.1	775.4
40°	756.5	764.6	751.2	751.2	751.2
42.5°	718.8	729.6	718.8	726.9	726.9
45°	686.5	694.6	689.2	697.3	697.3
47.5°	648.8	656.9	656.9	665.0	665.0
50°	613.8	621.9	619.2	630.0	635.4
52.5°	573.5	581.5	578.8	595.0	597.7
55°	535.8	543.8	541.2	554.6	562.7
57.5°	498.1	506.2	498.1	514.2	525.0
60°	457.7	465.8	455.0	471.2	492.7
62.5°	417.3	420.0	406.5	433.5	449.6
65°	376.9	374.2	360.8	390.4	395.8
67.5°	333.8	328.5	317.7	339.2	341.9
70°	288.1	282.7	274.6	285.4	290.8
72.5°	242.3	236.9	231.5	234.2	223.5
75°	201.9	191.2	185.8	177.7	172.3
77.5°	158.8	150.8	140.0	137.3	145.4
80°	118.5	118.5	102.3	142.7	226.2
82.5°	78.1	83.5	99.6	309.6	425.4
85°	43.1	56.5	161.5	436.2	589.6
87.5°	18.8	67.3	212.7	546.5	729.6
90°	5.4	96.9	266.5	656.9	853.5
92.5°	37.7	134.6	317.7	737.7	950.4
95°	80.8	166.9	363.5	794.2	1020.4
97.5°	123.8	207.3	403.8	831.9	1055.4
100°	166.9	234.2	433.5	840.0	1050.0
102.5°	201.9	261.2	465.8	834.6	1036.5
105°	239.6	282.7	481.9	818.5	996.1
107.5°	271.9	301.5	476.5	794.2	955.8
110°	301.5	312.3	471.2	737.7	899.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	325.8	331.2	463.1	678.5	807.7
115°	341.9	350.0	449.6	621.9	716.2
117.5°	352.7	360.8	428.1	560.0	635.4
120°	358.1	363.5	401.2	500.8	546.5
122.5°	355.4	360.8	368.8	428.1	452.3
125°	347.3	347.3	328.5	352.7	371.5
127.5°	333.8	331.2	298.8	298.8	312.3
130°	315.0	304.2	274.6	258.5	271.9
132.5°	290.8	271.9	253.1	228.8	236.9
135°	258.5	242.3	236.9	223.5	218.1
137.5°	223.5	215.4	218.1	223.5	218.1
140°	191.2	193.8	207.3	218.1	218.1
142.5°	169.6	177.7	191.2	204.6	210.0
145°	153.5	158.8	180.4	196.5	196.5
147.5°	140.0	145.4	164.2	183.1	188.5
150°	134.6	140.0	148.1	169.6	177.7
152.5°	129.2	129.2	140.0	158.8	161.5
155°	126.5	123.8	129.2	142.7	148.1
157.5°	123.8	121.2	123.8	129.2	131.9
160°	121.2	115.8	115.8	121.2	123.8
162.5°	121.2	113.1	110.4	115.8	113.1
165°	121.2	113.1	102.3	105.0	105.0
167.5°	121.2	110.4	99.6	96.9	99.6
170°	118.5	110.4	94.2	94.2	88.8
172.5°	118.5	110.4	94.2	88.8	83.5
175°	118.5	113.1	94.2	86.2	83.5
177.5°	118.5	113.1	96.9	88.8	83.5
180°	99.6	99.6	99.6	99.6	99.6

(END OF REPORT)