

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: P534506

Luminaire Tested: **S920DIP-W440-XX4XX-UDD-W**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534506
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-W440-XX4XX-UDD-W
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE RECTANCULAR HOUSING
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

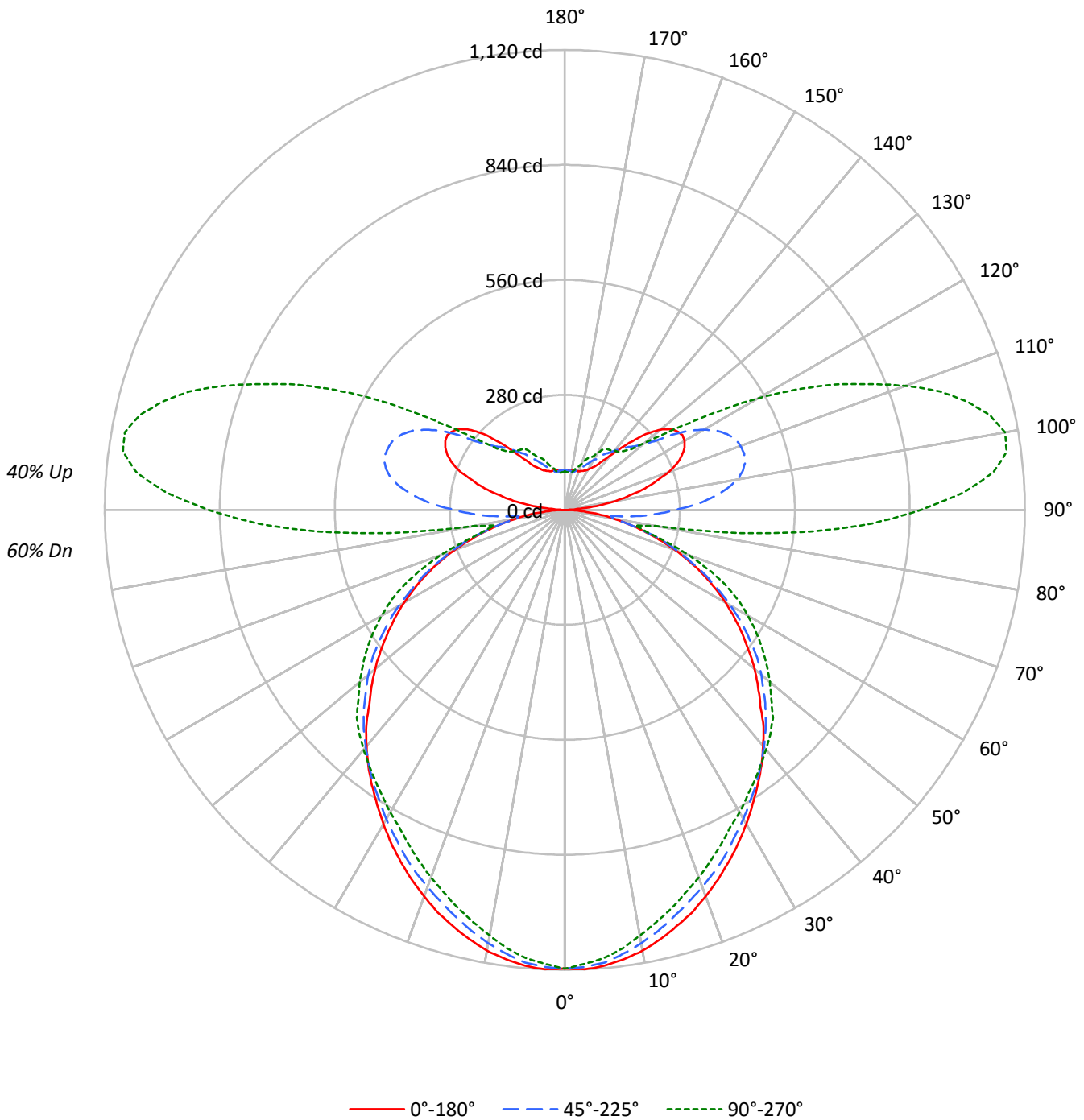
Lumens per Lamp: N/A
Luminaire Lumens: 5429.2 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.32
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: General Diffuse

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°	4438	4438	4438
5°	4414	4271	4202
10°	4339	4053	3930
15°	4230	3832	3680
20°	4118	3633	3456
25°	3998	3453	3251
30°	3878	3276	3090
35°	3766	3120	2960
40°	3658	2970	2859
45°	3510	2824	2765
50°	3413	2665	2610
55°	3292	2474	2463
60°	3170	2240	2284
65°	2996	1974	2049
70°	2735	1660	1653
75°	2342	1289	1164
80°	1886	865	1428
85°	1110	1504	4452



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	1.9
10°-20°	289.1	5.3
20°-30°	425.3	7.8
30°-40°	508.1	9.4
40°-50°	534.1	9.8
50°-60°	493.3	9.1
60°-70°	385.9	7.1
70°-80°	218.8	4.0
80°-90°	275.2	5.1
90°-100°	501.9	9.2
100°-110°	559.3	10.3
110°-120°	465.4	8.6
120°-130°	304.6	5.6
130°-140°	169.0	3.1
140°-150°	100.4	1.8
150°-160°	56.6	1.0
160°-170°	28.7	0.5
170°-180°	9.1	0.2
0°-30°	818.7	15.1
0°-40°	1326.8	24.4
0°-60°	2354.2	43.4
0°-90°	3234.0	59.6
90°-120°	1526.6	28.1
90°-150°	2100.7	38.7
90°-180°	2195.0	40.4
0°-180°	5429.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1115	1106	1106	1098	1096	106
15°	1050	1039	1026	1010	1004	296
25°	945	937	926	907	899	435
35°	818	816	813	805	805	512
45°	673	676	692	708	716	522
55°	528	530	549	574	587	472
65°	372	369	380	420	431	366
75°	196	194	202	205	205	209
85°	46	59	175	452	606	54
90°	3	92	269	657	867	6
95°	43	154	364	810	1047	55
105°	202	256	455	821	1015	210
115°	315	315	436	614	722	308
125°	334	328	318	353	366	296
135°	242	224	215	194	202	188
145°	129	137	164	180	180	86
155°	105	105	121	135	140	49
165°	100	97	97	102	105	28
175°	97	97	94	94	92	9
180°	94	94	94	94	94	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1117.3	1117.3	1117.3	1117.3	1117.3
2.5°	1120.0	1111.9	1114.6	1111.9	1106.5
5°	1114.6	1106.5	1106.5	1098.5	1095.8
7.5°	1103.8	1093.1	1090.4	1079.6	1076.9
10°	1090.4	1079.6	1071.5	1058.1	1052.7
12.5°	1071.5	1060.8	1050.0	1036.5	1028.5
15°	1050.0	1039.2	1025.8	1009.6	1004.2
17.5°	1028.5	1015.0	1001.5	985.4	977.3
20°	1001.5	988.1	977.3	958.5	953.1
22.5°	974.6	963.8	953.1	931.5	926.1
25°	945.0	936.9	926.1	907.3	899.2
27.5°	915.4	907.3	896.5	880.4	872.3
30°	883.1	877.7	869.6	853.5	850.8
32.5°	850.8	848.1	840.0	829.2	826.5
35°	818.5	815.8	813.1	805.0	805.0
37.5°	786.2	783.5	783.5	780.8	783.5
40°	751.2	748.5	753.8	756.5	761.9
42.5°	716.2	716.2	724.2	735.0	740.4
45°	673.1	675.8	691.9	708.1	716.2
47.5°	638.1	640.8	656.9	675.8	681.2
50°	603.1	603.1	624.6	640.8	651.5
52.5°	565.4	568.1	589.6	608.5	619.2
55°	527.7	530.4	549.2	573.5	586.9
57.5°	490.0	490.0	508.8	535.8	551.9
60°	452.3	452.3	465.8	495.4	514.2
62.5°	411.9	411.9	420.0	460.4	476.5
65°	371.5	368.8	379.6	420.0	430.8
67.5°	328.5	325.8	333.8	374.2	376.9
70°	285.4	280.0	290.8	320.4	320.4
72.5°	239.6	236.9	250.4	261.2	255.8
75°	196.5	193.8	201.9	204.6	204.6
77.5°	156.2	156.2	156.2	161.5	175.0
80°	118.5	121.2	118.5	158.8	223.5
82.5°	83.5	83.5	113.1	312.3	433.5
85°	45.8	59.2	175.0	452.3	605.8
87.5°	18.8	67.3	226.2	562.7	751.2
90°	2.7	91.5	269.2	656.9	866.9
92.5°	16.2	126.5	323.1	748.5	971.9
95°	43.1	153.5	363.5	810.4	1047.3
97.5°	86.2	183.1	398.5	853.5	1085.0
100°	126.5	210.0	428.1	858.8	1087.7
102.5°	161.5	234.2	444.2	848.1	1060.8
105°	201.9	255.8	455.0	821.2	1015.0
107.5°	234.2	274.6	457.7	778.1	958.5
110°	269.2	285.4	455.0	726.9	883.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	296.2	298.8	449.6	667.7	799.6
115°	315.0	315.0	436.2	613.8	721.5
117.5°	328.5	331.2	417.3	560.0	632.7
120°	336.5	339.2	390.4	498.1	543.8
122.5°	339.2	336.5	358.1	425.4	449.6
125°	333.8	328.5	317.7	352.7	366.2
127.5°	323.1	309.6	274.6	290.8	301.5
130°	304.2	282.7	247.7	239.6	253.1
132.5°	277.3	253.1	228.8	210.0	218.1
135°	242.3	223.5	215.4	193.8	201.9
137.5°	204.6	196.5	201.9	193.8	191.2
140°	172.3	175.0	188.5	188.5	188.5
142.5°	148.1	156.2	175.0	185.8	183.1
145°	129.2	137.3	164.2	180.4	180.4
147.5°	121.2	123.8	148.1	164.2	175.0
150°	113.1	115.8	140.0	153.5	158.8
152.5°	107.7	110.4	129.2	145.4	145.4
155°	105.0	105.0	121.2	134.6	140.0
157.5°	102.3	102.3	113.1	126.5	131.9
160°	99.6	99.6	107.7	121.2	118.5
162.5°	99.6	96.9	102.3	110.4	110.4
165°	99.6	96.9	96.9	102.3	105.0
167.5°	99.6	96.9	94.2	96.9	96.9
170°	96.9	96.9	94.2	94.2	91.5
172.5°	96.9	96.9	96.9	94.2	91.5
175°	96.9	96.9	94.2	94.2	91.5
177.5°	96.9	96.9	96.9	94.2	91.5
180°	94.2	94.2	94.2	94.2	94.2

(END OF REPORT)