

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: P534528

Luminaire Tested: **S921DIP-W235-XX4XX-UDD-W-PC**

Issue Date: 6/9/2021

Test Information

Test Method: LM-79-08
Report Number: P534528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35513)
Test Lab: INNOVATION CENTER
Issue Date: 6/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S921DIP-W235-XX4XX-UDD-W-PC
Description: NEO-RAY CONVERGE SUSPENDED LED WaveStream LUMINAIRE
WHITE CURVILINEAR HOUSING WITH PERFORATED UPLIGHT COVER
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

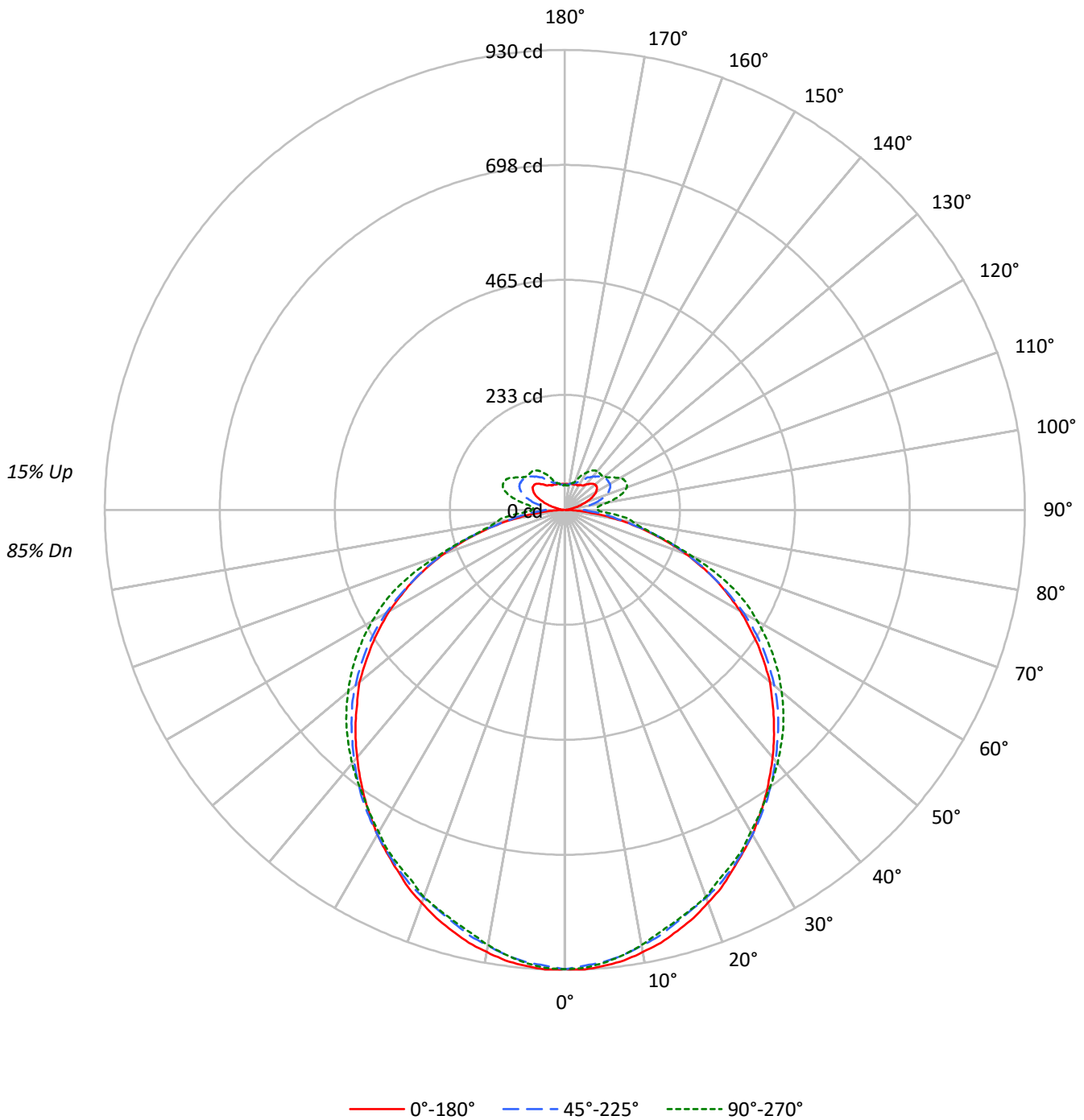
Lumens per Lamp: N/A
Luminaire Lumens: 3157.9 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.21 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.68' x L: 4' x H: 0.31')
CIE Type: Semi-Direct

Input Watts (W): 27.7
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	50	30	10	0	
RCR																						
0	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85				
1	105	100	96	92	101	96	92	89	89	86	83	83	80	78	77	75	73	70				
2	95	87	80	74	91	84	77	72	78	73	68	72	68	64	67	64	61	58				
3	87	76	68	61	83	73	66	60	68	62	57	63	58	54	59	55	51	48				
4	79	67	58	52	76	65	57	51	60	54	48	56	51	46	53	48	44	41				
5	73	60	51	44	69	58	50	43	54	47	42	50	44	40	47	42	38	35				
6	67	54	45	39	64	52	44	38	49	42	36	46	39	35	43	37	33	31				
7	62	49	40	34	59	47	39	33	44	37	32	41	35	31	39	34	30	27				
8	58	44	36	30	55	43	35	30	40	33	28	38	32	27	36	30	26	24				
9	54	41	32	27	52	39	32	27	37	30	26	35	29	25	33	28	24	22				
10	50	37	30	24	48	36	29	24	34	28	23	32	26	22	31	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3689	3689	3689
5°	3666	3542	3525
10°	3613	3386	3337
15°	3549	3231	3159
20°	3478	3103	3021
25°	3397	2982	2868
30°	3330	2857	2731
35°	3254	2739	2607
40°	3181	2611	2511
45°	3116	2490	2411
50°	3066	2358	2291
55°	2971	2203	2160
60°	2869	2007	1996
65°	2724	1756	1788
70°	2489	1492	1414
75°	2126	1169	1042
80°	1623	802	896
85°	848	603	714



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.3	2.8
10°-20°	245.7	7.8
20°-30°	368.9	11.7
30°-40°	445.9	14.1
40°-50°	472.5	15.0
50°-60°	440.6	14.0
60°-70°	344.0	10.9
70°-80°	194.4	6.2
80°-90°	77.4	2.4
90°-100°	45.5	1.4
100°-110°	77.7	2.5
110°-120°	99.0	3.1
120°-130°	89.7	2.8
130°-140°	69.7	2.2
140°-150°	49.4	1.6
150°-160°	29.7	0.9
160°-170°	15.7	0.5
170°-180°	4.9	0.2
0°-30°	701.8	22.2
0°-40°	1147.7	36.3
0°-60°	2060.8	65.3
0°-90°	2676.6	84.8
90°-120°	222.1	7.0
90°-150°	430.9	13.6
90°-180°	481.0	15.2
0°-180°	3157.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	926	926	918	921	919	88
15°	881	879	865	865	862	249
25°	803	804	800	797	793	371
35°	707	715	714	712	709	443
45°	597	609	610	621	624	461
55°	476	484	489	505	515	426
65°	338	336	338	365	376	332
75°	178	175	183	182	183	190
85°	35	46	70	88	97	43
90°	2	19	38	57	67	2
95°	5	24	41	57	67	6
105°	29	49	72	102	118	31
115°	62	81	100	124	135	61
125°	80	89	105	110	115	70
135°	75	75	96	100	102	58
145°	60	64	80	92	97	38
155°	56	57	62	70	75	26
165°	54	54	56	56	56	15
175°	53	53	51	51	49	5
180°	51	51	51	51	51	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	928.8	928.8	928.8	928.8	928.8
2.5°	930.4	930.4	922.4	927.2	927.2
5°	925.6	925.6	917.6	920.8	919.2
7.5°	919.2	917.6	908.1	909.7	908.1
10°	908.1	906.5	895.3	896.9	893.7
12.5°	896.9	893.7	882.6	879.4	876.2
15°	881.0	879.4	865.1	865.1	861.9
17.5°	865.1	861.9	849.1	850.7	847.5
20°	846.0	844.4	834.8	836.4	833.2
22.5°	826.8	825.2	818.9	817.3	810.9
25°	802.9	804.5	799.8	796.6	793.4
27.5°	780.6	782.2	779.0	777.4	775.9
30°	758.3	761.5	758.3	755.1	752.0
32.5°	732.8	737.6	736.0	732.8	731.2
35°	707.3	715.3	713.7	712.1	708.9
37.5°	680.3	691.4	688.2	689.8	689.8
40°	653.2	664.3	662.7	667.5	669.1
42.5°	626.1	635.7	635.7	645.2	646.8
45°	597.4	608.6	610.2	621.3	624.5
47.5°	568.7	578.3	583.1	595.8	599.0
50°	541.7	548.0	552.8	567.2	571.9
52.5°	508.2	516.2	521.0	538.5	544.8
55°	476.3	484.3	489.1	505.0	514.6
57.5°	442.9	450.9	454.0	473.2	482.7
60°	409.4	414.2	417.4	436.5	449.3
62.5°	372.8	376.0	377.6	403.1	415.8
65°	337.7	336.2	337.7	364.8	376.0
67.5°	297.9	297.9	301.1	323.4	328.2
70°	259.7	258.1	261.3	275.6	274.0
72.5°	219.9	215.1	224.6	224.6	224.6
75°	178.4	175.2	183.2	181.6	183.2
77.5°	140.2	140.2	141.8	148.2	154.5
80°	102.0	106.7	109.9	129.0	140.2
82.5°	65.3	73.3	89.2	119.5	127.5
85°	35.0	46.2	70.1	87.6	97.2
87.5°	12.7	30.3	46.2	62.1	70.1
90°	1.6	19.1	38.2	57.4	66.9
92.5°	1.6	20.7	38.2	55.8	63.7
95°	4.8	23.9	41.4	57.4	66.9
97.5°	9.6	28.7	44.6	63.7	74.9
100°	14.3	35.0	51.0	76.5	90.8
102.5°	20.7	41.4	62.1	90.8	105.1
105°	28.7	49.4	71.7	102.0	117.9
107.5°	36.6	58.9	81.2	111.5	127.5
110°	46.2	66.9	89.2	117.9	133.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	54.2	74.9	95.6	121.1	135.4
115°	62.1	81.2	100.4	124.3	135.4
117.5°	68.5	86.0	103.6	124.3	133.8
120°	73.3	89.2	105.1	121.1	129.0
122.5°	76.5	89.2	105.1	116.3	121.1
125°	79.7	89.2	105.1	109.9	114.7
127.5°	79.7	87.6	103.6	105.1	108.3
130°	79.7	84.4	100.4	102.0	103.6
132.5°	78.1	79.7	98.8	100.4	102.0
135°	74.9	74.9	95.6	100.4	102.0
137.5°	70.1	71.7	90.8	102.0	102.0
140°	66.9	68.5	87.6	100.4	102.0
142.5°	62.1	66.9	82.8	97.2	100.4
145°	60.5	63.7	79.7	92.4	97.2
147.5°	58.9	62.1	73.3	87.6	92.4
150°	57.4	60.5	66.9	82.8	86.0
152.5°	55.8	58.9	63.7	78.1	81.2
155°	55.8	57.4	62.1	70.1	74.9
157.5°	55.8	57.4	58.9	63.7	66.9
160°	54.2	55.8	57.4	60.5	60.5
162.5°	54.2	54.2	57.4	57.4	57.4
165°	54.2	54.2	55.8	55.8	55.8
167.5°	54.2	54.2	54.2	54.2	54.2
170°	52.6	52.6	52.6	52.6	52.6
172.5°	52.6	52.6	51.0	51.0	49.4
175°	52.6	52.6	51.0	51.0	49.4
177.5°	52.6	52.6	51.0	51.0	49.4
180°	51.0	51.0	51.0	51.0	51.0

(END OF REPORT)