

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: P231673

Luminaire Tested: **S122-DR-2-35-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33909)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122-DR-2-35-X-0048-1-U-DD-1-W
Description: DEFINE 2 LED LINEAR DIRECT RECESSED LED LUMINAIRE WITH FLUSH LENS.
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3695.1 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 0.14' x L: 3.92' x H: 0')
CIE Type: Direct

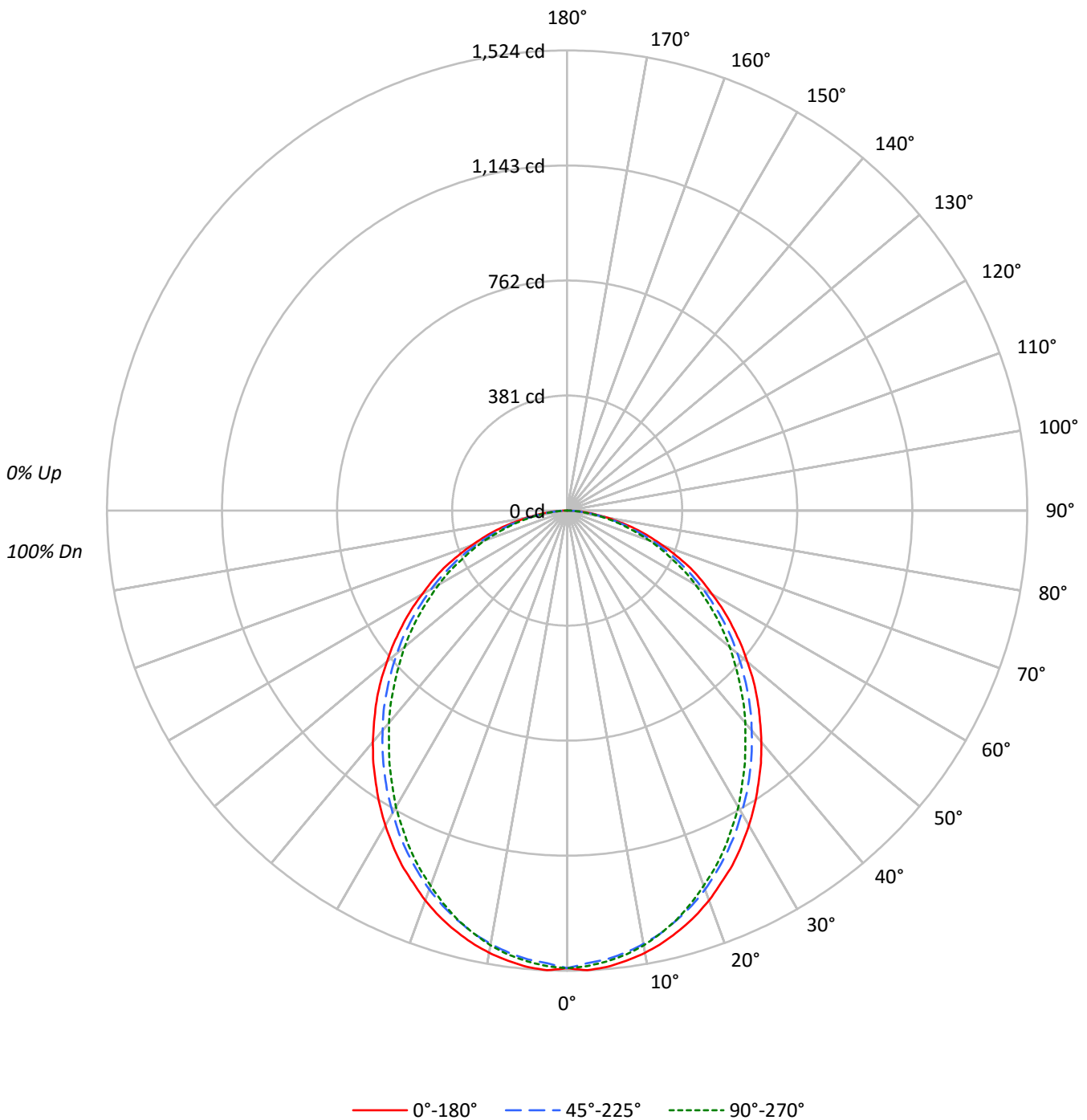
Input Watts (W): 42.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29747	29747	29747
5°	29895	29402	29534
10°	29642	29044	29144
15°	29240	28529	28496
20°	28701	27901	27621
25°	28062	27087	26728
30°	27291	26196	25706
35°	26459	25301	24582
40°	25646	24367	23514
45°	24780	23439	22423
50°	23802	22480	21463
55°	22855	21486	20404
60°	21770	20400	19289
65°	20962	19262	17943
70°	19210	17775	16633
75°	17679	15912	14775
80°	15058	13746	12797
85°	12388	10879	9752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.9
10°-20°	398.2	10.8
20°-30°	579.4	15.7
30°-40°	663.6	18.0
40°-50°	653.7	17.7
50°-60°	563.6	15.3
60°-70°	411.9	11.1
70°-80°	224.8	6.1
80°-90°	57.4	1.6
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°	1120.0	30.3
0°-40°	1783.6	48.3
0°-60°	3000.9	81.2
0°-90°	3695.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1517	1509	1492	1502	1499	144
15°	1439	1426	1404	1407	1402	405
25°	1296	1279	1251	1244	1234	596
35°	1104	1087	1056	1036	1026	691
45°	893	874	844	821	808	688
55°	668	658	628	604	596	597
65°	451	436	415	396	386	443
75°	233	222	210	200	195	246
85°	55	52	48	45	43	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1515.4	1515.4	1515.4	1515.4	1515.4
2.5°	1523.7	1517.1	1500.4	1513.8	1510.4
5°	1517.1	1508.8	1492.1	1502.1	1498.8
7.5°	1503.8	1495.4	1477.1	1487.1	1483.8
10°	1487.1	1475.5	1457.1	1465.5	1462.1
12.5°	1465.5	1452.1	1433.8	1440.5	1433.8
15°	1438.8	1425.5	1403.8	1407.2	1402.2
17.5°	1408.8	1393.9	1372.2	1372.2	1363.9
20°	1373.9	1358.9	1335.6	1330.6	1322.2
22.5°	1333.9	1318.9	1293.9	1290.6	1280.6
25°	1295.6	1278.9	1250.6	1244.0	1234.0
27.5°	1250.6	1234.0	1205.7	1192.4	1182.4
30°	1204.0	1185.7	1155.7	1144.1	1134.1
32.5°	1155.7	1139.1	1107.4	1090.8	1077.4
35°	1104.1	1087.4	1055.8	1035.8	1025.8
37.5°	1054.1	1034.1	1004.2	982.5	969.2
40°	1000.8	980.9	950.9	929.2	917.6
42.5°	945.9	927.6	899.3	874.3	864.3
45°	892.6	874.3	844.3	821.0	807.7
47.5°	837.6	819.3	789.4	764.4	754.4
50°	779.4	766.0	736.1	711.1	702.8
52.5°	724.4	711.1	682.8	657.8	649.5
55°	667.8	657.8	627.8	604.5	596.2
57.5°	612.8	601.2	572.9	552.9	541.2
60°	554.5	544.6	519.6	499.6	491.3
62.5°	502.9	491.3	466.3	448.0	441.3
65°	451.3	436.3	414.7	396.3	386.3
67.5°	391.3	383.0	361.4	343.1	339.7
70°	334.7	326.4	309.7	294.8	289.8
72.5°	284.8	274.8	258.1	246.5	239.8
75°	233.1	221.5	209.8	199.8	194.8
77.5°	179.9	174.9	163.2	154.9	151.5
80°	133.2	129.9	121.6	113.2	113.2
82.5°	93.3	88.3	81.6	76.6	74.9
85°	55.0	51.6	48.3	45.0	43.3
87.5°	23.3	21.6	18.3	16.7	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)