

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: P231672

Luminaire Tested: **S122-DR-2-30-X-0048-1-U-DD-1-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P231672
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-2-30-X-0048-1-U-DD-1-W
Description: DEFINE 2 LED LINEAR DIRECT RECESSED LED LUMINAIRE WITH FLUSH LENS.
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3552.9 lumens
Efficiency: N/A
Efficacy: 83.4 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

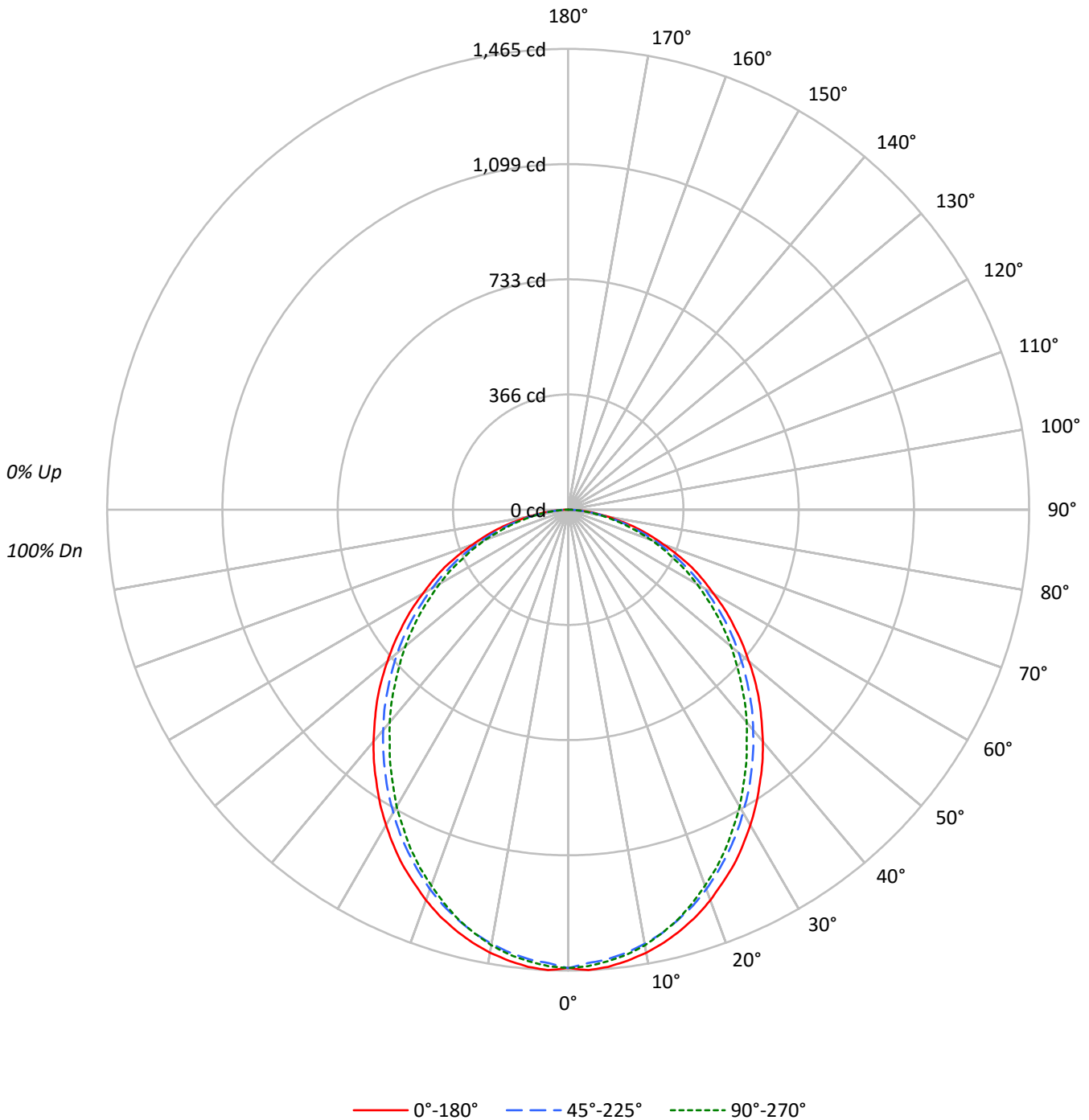
Input Watts (W): 42.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	28603	28603	28603
5°	28744	28271	28397
10°	28502	27928	28024
15°	28116	27433	27399
20°	27596	26827	26559
25°	26983	26045	25699
30°	26241	25190	24716
35°	25440	24328	23638
40°	24659	23429	22609
45°	23827	22536	21559
50°	22886	21615	20635
55°	21975	20661	19617
60°	20934	19614	18546
65°	20154	18519	17256
70°	18475	17092	15990
75°	17004	15305	14206
80°	14481	13215	12311
85°	11892	10451	9370



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.9	3.9
10°-20°	382.9	10.8
20°-30°	557.1	15.7
30°-40°	638.1	18.0
40°-50°	628.5	17.7
50°-60°	542.0	15.3
60°-70°	396.1	11.1
70°-80°	216.1	6.1
80°-90°	55.2	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°	1076.9	30.3
0°-40°	1715.0	48.3
0°-60°	2885.5	81.2
0°-90°	3552.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3552.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1457	1457	1457	1457	1457	
5°	1459	1451	1435	1444	1441	138
15°	1384	1371	1350	1353	1348	390
25°	1246	1230	1202	1196	1186	573
35°	1062	1046	1015	996	986	665
45°	858	841	812	789	777	662
55°	642	632	604	581	573	574
65°	434	420	399	381	372	426
75°	224	213	202	192	187	236
85°	53	50	46	43	42	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1457.1	1457.1	1457.1	1457.1	1457.1
2.5°	1465.1	1458.7	1442.7	1455.5	1452.3
5°	1458.7	1450.7	1434.7	1444.3	1441.1
7.5°	1445.9	1437.9	1420.3	1429.9	1426.7
10°	1429.9	1418.7	1401.1	1409.1	1405.9
12.5°	1409.1	1396.3	1378.7	1385.1	1378.7
15°	1383.5	1370.7	1349.9	1353.1	1348.2
17.5°	1354.7	1340.2	1319.4	1319.4	1311.4
20°	1321.0	1306.6	1284.2	1279.4	1271.4
22.5°	1282.6	1268.2	1244.2	1241.0	1231.4
25°	1245.8	1229.8	1202.5	1196.1	1186.5
27.5°	1202.5	1186.5	1159.3	1146.5	1136.9
30°	1157.7	1140.1	1111.3	1100.1	1090.4
32.5°	1111.3	1095.3	1064.8	1048.8	1036.0
35°	1061.6	1045.6	1015.2	996.0	986.4
37.5°	1013.6	994.4	965.6	944.7	931.9
40°	962.3	943.1	914.3	893.5	882.3
42.5°	909.5	891.9	864.7	840.7	831.0
45°	858.3	840.7	811.8	789.4	776.6
47.5°	805.4	787.8	759.0	735.0	725.4
50°	749.4	736.6	707.8	683.7	675.7
52.5°	696.5	683.7	656.5	632.5	624.5
55°	642.1	632.5	603.7	581.3	573.2
57.5°	589.3	578.0	550.8	531.6	520.4
60°	533.2	523.6	499.6	480.4	472.4
62.5°	483.6	472.4	448.3	430.7	424.3
65°	433.9	419.5	398.7	381.1	371.5
67.5°	376.3	368.3	347.5	329.9	326.7
70°	321.9	313.8	297.8	283.4	278.6
72.5°	273.8	264.2	248.2	237.0	230.6
75°	224.2	213.0	201.8	192.1	187.3
77.5°	172.9	168.1	156.9	148.9	145.7
80°	128.1	124.9	116.9	108.9	108.9
82.5°	89.7	84.9	78.5	73.7	72.1
85°	52.8	49.6	46.4	43.2	41.6
87.5°	22.4	20.8	17.6	16.0	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)