

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: P333888

Luminaire Tested: **S122RDS-S865D835-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P333888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDS-S865D835-4F0-1E-UDD-F
Description: DEFINE 2 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 865 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2898.1 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

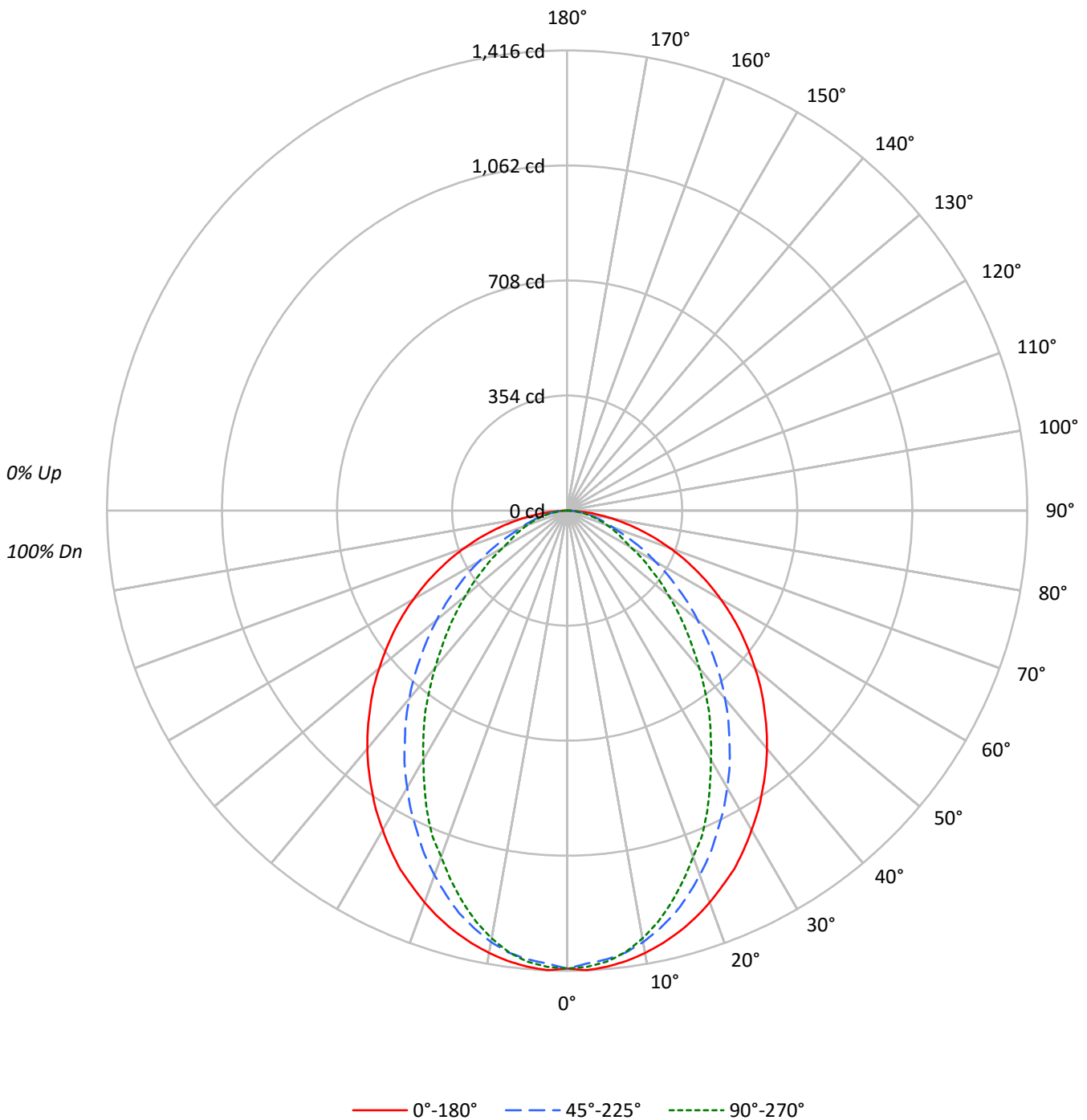
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22751	22751	22751
5°	22838	22467	22590
10°	22664	22099	21912
15°	22404	21444	20826
20°	22043	20508	19479
25°	21674	19447	18175
30°	21160	18355	16500
35°	20662	17168	15031
40°	20158	15938	13331
45°	19568	14559	11794
50°	18962	13165	10284
55°	18342	11668	8830
60°	17625	10088	7330
65°	16810	8478	6674
70°	15833	6982	6142
75°	14635	6363	5727
80°	12924	5690	5216
85°	10152	4483	4483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	4.6
10°-20°	362.6	12.5
20°-30°	509.0	17.6
30°-40°	554.9	19.1
40°-50°	510.0	17.6
50°-60°	400.5	13.8
60°-70°	260.7	9.0
70°-80°	134.2	4.6
80°-90°	34.3	1.2
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°	1003.6	34.6
0°-40°	1558.5	53.8
0°-60°	2468.9	85.2
0°-90°	2898.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1409	1409	1409	1409	1409	
5°	1409	1403	1386	1398	1394	134
15°	1340	1326	1283	1259	1246	378
25°	1217	1176	1092	1039	1020	559
35°	1048	983	871	791	763	656
45°	857	772	638	547	516	662
55°	652	552	414	338	314	582
65°	440	337	222	178	175	436
75°	235	145	102	93	92	248
85°	55	28	24	24	24	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1409.1	1409.1	1409.1	1409.1	1409.1
2.5°	1415.5	1409.1	1395.1	1407.9	1405.3
5°	1409.1	1402.8	1386.2	1397.7	1393.8
7.5°	1397.7	1390.0	1372.2	1377.3	1370.9
10°	1382.4	1373.4	1347.9	1344.1	1336.5
12.5°	1363.2	1351.8	1317.3	1309.7	1295.6
15°	1340.3	1326.3	1282.9	1258.7	1245.9
17.5°	1313.5	1293.1	1239.5	1211.5	1191.1
20°	1282.9	1257.4	1193.6	1161.7	1133.7
22.5°	1249.7	1220.4	1146.4	1103.1	1084.0
25°	1216.6	1175.8	1091.6	1039.3	1020.2
27.5°	1177.0	1133.7	1040.6	980.7	951.3
30°	1135.0	1086.5	984.5	919.5	885.0
32.5°	1094.2	1035.5	930.9	854.4	822.5
35°	1048.3	983.2	871.0	790.7	762.6
37.5°	1003.6	933.5	814.9	726.9	695.0
40°	956.4	879.9	756.2	665.7	632.5
42.5°	908.0	826.4	697.6	603.2	571.3
45°	857.0	771.5	637.6	547.1	516.5
47.5°	808.5	718.0	580.2	489.7	461.6
50°	754.9	664.4	524.1	436.1	409.4
52.5°	702.7	607.0	470.6	386.4	362.2
55°	651.6	552.2	414.5	337.9	313.7
57.5°	599.4	497.3	364.7	293.3	272.9
60°	545.8	443.8	312.4	247.4	227.0
62.5°	493.5	391.5	267.8	206.6	196.4
65°	440.0	336.7	221.9	178.5	174.7
67.5°	388.9	285.7	178.5	156.9	153.0
70°	335.4	235.9	147.9	135.2	130.1
72.5°	284.4	190.0	123.7	113.5	110.9
75°	234.6	145.4	102.0	93.1	91.8
77.5°	184.9	103.3	80.3	75.2	72.7
80°	139.0	74.0	61.2	56.1	56.1
82.5°	96.9	49.7	42.1	39.5	39.5
85°	54.8	28.1	24.2	24.2	24.2
87.5°	20.4	10.2	10.2	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)